

atgatgttga ggcaaaagga ttgggggttg ggatggaggc gtgaagatag catgaaaagg 2040
 cgttttgcat gggactacgg agcgtgttat atacgaatgt cttctatatg atgataccct 2100
 agtgttgga agtgacgaac tctattgagt gtagtcatat agtccatcgg cgtaagtcca 2160
 ttttgtattc catagatttc atataagaga agaaccatac caciaacgct gaactccata 2220
 tgtgcattgc aagccgtcac gaaaaacctc aagcagggtta ttcttttatc aaaagcatag 2280
 gagcagaacc aaagtaccaa ggccccctaa tatctctgcc tccccagtgt tggagcccac 2340
 gtcacaggat gagtctctgg cgtagcctga tcatcctgct tccagacctt gatagtctta 2400
 tccgcctcac cggtaatcaa ggcgaggccc gtcctatcga acgtagacgt catgatacca 2460
 gcttcagctt caagcgaacc cggtctggcg gttgtatcga tagtctggta gcggtatccc 2520
 gtcttcagct cccagaagga catggagccg ttgtcaccac cggagaagag gacattgtct 2580
 tcattgacgg agaggggtatt gatgatcgcg ttatgacctt caaagttctg catgaactcg 2640
 ccaccaggac acttcattg cttgatgctc cctgtgctag cagatgcgaa ggtgaattcg 2700
 cgaggggtgcg tggctagact gcgaatgcc tttttgtggt gagtgaggac gcccatggtc 2760
 tttccagctg cgagatccca gaggcggacg gtcgctcga gagatccggt aatgacttga 2820
 gggtcggctt cttggcattg tacatctgcg acagtgccg tgtggccgga cagaacgtga 2880
 atgttgctgc gagtgcgcat atcccacaca cgtgcgacgc catctcgacc accagttact 2940
 agcagggtcaa gacgggggtg gagcgcaagt gtgtatacac cactgagatg gccgtggtaa 3000
 tgacgaatga ctttgttcgt ttccagatcc cagcatttga ccatcttatc ctcaccgcag 3060
 gagaagaggt atgggtgtcg cggggatagc gctaaaccgc gaacagtcga gatatgaccc 3120
 gtaagggtta accgcagtgc accggctcga agattccaga tcttaattgt ccggtctcca 3180
 gcaccactgg caaaccactc gttattcggg tccacagcca aactccgcac ccatcccaga 3240
 tggcccagata taaccctcat cagcttccat ggtgcgtgcc actcgggagg ttgttgccgt 3300
 gtggctgatg gtctctgaat taagctcgtt ggcttgctat ctcccgcagc gccgctcgcg 3360
 cgacctctc tccttacaag ggccgtagac gcgccactct tgtccccaga gcccgatcct 3420
 tctgaccgtg aactgatctt aggccgcttc gaccttgctg cggctgcttg cgcttgtttt 3480
 gcggcaagag ctggaggaag ctcttcaca tgttcatatt ctgtttttcg tcggtaggaa 3540
 acaccaatcg atccgttcga ggcggagggt gtgaccatga gatattcggg accgaaaagc 3600

tcggctgttc tcttcgccga gatgcgcacg gcctcacctg gcgtagtcga tggaatcacg 3660
 tccattatga ggggtagatg gtaaagaaat gggcctcgat aggtccgagt agcttgggat 3720
 tgaaaccaag ctcttgaggg ttcgatgtct cgcccaaacg cgtatgaggt caagtgggtt 3780
 gggtttgtaa gttctagttt tgaggagttt cgagcgagtg gaatcgtaat gagaggggtt 3840
 cagcaggagg aaggaggtct ttgaagagca agttgtagag accgcaggcg tcggacacgg 3900
 aagtttctta gcttcggaat tagtgccctga ggctgcaagg caacatcaag gtatcttgtc 3960
 acctgctctt gccagcttcc atgcttctta acccttcaac attggacata aacatccacc 4020
 ttaataactg aatacgtctt tgattggata gtaatatggc tacgacggac tcaaagtttc 4080
 cacttcatga agctgctcga gagggcaaac gtttgtctcc tcaataaaca caaaatatat 4140
 atggagtata ctcttgctaa caccctacca gtttctttgg ctgagtcact tctgaatgtc 4200
 agtttctcgt accaactgca ctagcaggca tatctgttga gtcctcatct gatttccttc 4260
 aggcaaatcc aaaactagct actacgaaag atgatgatga ccgtcttcca attcactggg 4320
 cggtggccta caaccacctt cccatggctg agctcctcgt ttcaacaaag gacttcgac 4380
 cggatgtcga ggtacgtact cgttggaaac tatcttttgc attgtaagac cttaccagac 4440
 taattggaag gccaggacgg atcatgctgg actcctctaa tgatcgccgc tagtcttaga 4500
 aatgccgaag gtgaccccat catcgagcta ctctgcgcga aaggagcgga tgtcaatgcc 4560
 aagagcatca ctgggcaggt aagtccttga agatacatag tcattctttt ttgaggcatc 4620
 aaattgatca atccagaatg cactggactt tgcaacatct aaagcaaaca tcaccacagt 4680
 ccggacctta ctggaaaaca aatgcagtgc ccgagtcaag gacaaaaggg gccagttagc 4740
 gcttcatcgt gcggctgcga taggctctac gccaatcatc cagctactgc tgaaagaagg 4800
 tcgaagcccg gttaatgcta ctgataatga tggccttacg gcattgcacc atgctatttc 4860
 agaaggatcat ggtgatgcgg cgcttacgtt gttgaaagct ggtgctgagg cgataagaa 4920
 ggatgcgagt gggacgttag cgattgatat ggcgccgat aagaaggtag ataagcagcc 4980
 agcatcattg gaaaaagtgt taacttatgc ttttaggttc ggaattatat cctgcaggcg 5040
 gcggaaaggg agggatttga gctttgacat gtagaaggaa acggataaac tgaaaacatg 5100
 gattgtattt gatataccct actcaattcc tgcttgggat gagatgatcc atagaatggg 5160
 tttaaaatgt taagattttt ggtcagtcga aaggattgag ttcccagatt gctatttata 5220

tacacgatca tacaaacgta gggtttact tcattgtgct gtctaccaac tcgcgatata 5280
 tcttcttgag atccgcaatg tcggcttgaa gtcctcaac ctgctcgctc ttctcaccaa 5340
 gtaactcaag cgtggtctcg tatcgtctgt cgagatcttc gagtttctgc tgtagctctt 5400
 gcacctgtga atcagatgct ctcttctcct ccacctctcg catcagttca acgacttggt 5460
 cgcgggcttc gtcacgttgg gcggttatgc gggccatttc gtccttcgaa gcggcgctt 5520
 cgctctccag ccggcgtaac gtggcgctca tgcgctcaac gagctgaact gacggccccg 5580
 cgccgacagt ggattcagaa ataatatcgt tgatgccccg cgagtgtgtt gcagtgccac 5640
 cgaatgctga cggcgctccg gagccgatga agaactcctc tggttcaagc agctttggcg 5700
 acccgggcac tgttgggagt gaacccttct ctgaaagtat cggcgacaaa accgattgag 5760
 aggctgaaac cggaagggaa ttctggcggtg gaggagtgtt tatgtcaggg atgacacctg 5820
 gtatagcgga cgagcgctcg cttgttggcc ggtagtctga gagcgaggtg ggagcttcca 5880
 gtatactggg tcgatgagag gaaacaggag actcgttgcg ccggagggga ttcattgggc 5940
 gcatggcttg ttcacgccac tttgcccgt catcttctag cttttgtgtc catgttgcac 6000
 cactaatggc cttctgtca gccatttcat tttgtgcggc agttagctcg tcaatggctt 6060
 ttctcagctt ctgctcagcc ttctgtagtt cctgagagcg ttcctctatt ctatctgaga 6120
 ggtcgcgctc gttttcctgt gcgctttcga ggtcctcttc aagtcgcttc accttgaggt 6180
 tctacctcct gtcagccttt tgtggttgat tgcgaaagaa cacactcacc atctcgcgaa 6240
 tctttcttcg tgctcagcc tccgcgcgcg cgacctcgtc gcgttccttt tctacattcg 6300
 ctagacgcga aagtagagag ctttctaaag cctgccaatt ctgctggca gcggcgact 6360
 gtgtctgcaa cgtctcaatt tgacgtacga gtttaacctg cgcacccca gccacccag 6420
 aagatgcttc ctccgccctt gaccgtagag actccatctt gctctccaat acggactgct 6480
 cccctttcag ctccacttcc agaactcgag ccccttcttt ctctgttca atagcctcct 6540
 tgagatcagc tatttctctc ttgagctttt cctcgctgat ttcgcttca atcctagcgc 6600
 ttgagagttc ctcttcagc tgattggcac gctgcttttc ccgctccaag gcacggagt 6660
 tggcctttgc ctctgtgca tccgcctcg agactgctcg agcaagctgt ccttcatctt 6720
 cctgaaccgt ttggcttaaa gcattccgtt cagcagttac ggtctccaag tctcgagcag 6780
 tctttgtctg cgcggaaga gaccagtggt ctctcttctc cgctgcctct gcccgcttaa 6840

ccttagcttc cgcattggct aagtcctct ctagccggtc atttttcttc ttcgcctcgg 6900
 cctggagctt ggaattttct gctagctgtt gtcggagctt cttgatcagc gttcgatggt 6960
 ccatctccgt cttggagagc ttctgtccct cctccaacag aagcgcgac ctcctcatcct 7020
 tctcccgaag ctgtctctca acatttccag gttccgctgt agccgccgcc tttcgtgccg 7080
 actctgcggc ttcttgggct aggtatttca gtttcgactg taaggcatcg attcgctcaa 7140
 tatatccgtg tatctcctct tgtaattcgg attcgacagc tttcttatcc gattgctgaa 7200
 gtccatccgg attctcttcc tcatttgccg gagtatacc cctctccgca gaagagccac 7260
 taccaatcgg tgcgggctct tttggtgcag atgaaggatc agtctctccg cctgcgtcag 7320
 aagccggagc agatgccaaa gtatctttct cgctaggtgt tggtgccgca gcttccgacg 7380
 acacgcctg 7389

<210> 5840
 <211> 7002
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5840
 agcgcacccc tcctcttgtt ccgaactccc ccttcttggg acttctttgc gaccggcgat 60
 ctccctccga gctcatgtcg caccgattac agtcttgtct ctaactcctt tcgagatccc 120
 atcgaatatc agaagacatt tgagccctc ttaatacttg aagcttggca gggcttccag 180
 gcttcaaaag aagaaggggg ttttaaaact ttcgaaatca aagtggcaac ccggttgtct 240
 gttgacgcat tcgtggaagt gaatacgaat atgataggaa tggacgtcaa agatactggt 300
 gtcttcgaag cagatttggg tttgctttct aaagcgagca accctgcaac gaacccatcg 360
 gtgcctcact gcttagctag ggttgcta atcagtaaga aaaagggcgt ggttgaagtt 420
 tcttacaggg ttaatcccg taatcctttc atcaattccc tgggccctgg tgcaacaatc 480
 tatggagcaa agataacgtc gtcacgccg cttgagcgtg agttcgggtc tcttatggcc 540
 cttcaatatt acgacctctg cgaggagatt gtccgggcca ggccttcgcc tattcttaac 600
 tactcggatg cgagcctcaa gcctttggtg gataactaca atgtgaacct tgcgcaggca 660
 aaggctatca aatctgctat ggacaatgat gcttttacct tgattcaggg cccgccgggc 720
 tcaggaaaga caaaaacat tgtggctctt gtaggagccc ttttgaccaa tgccttaaag 780

gatcagggga ttgtgataac acgccaaca gcggcaatca atgcacggcc tggagcacga 840
acaacaacct cgaagaagct ccttgtgtgc gcgccagca atgcagcggg ggatgaattg 900
gttatgcgat tcaaagaggg cgtaagacg attcatggtc gtcacgaaaa gctatcagtc 960
attcgcttgg gacgaagcga cgcaatcaat actaatgtcc tggactgtta ctctcgacga 1020
actggtgaat gctagggttaa agcagacgtc cggggaaaaa tctggtgaaa cggatctgca 1080
gaaaatctac gtagagcaca aggctgcaga tactgcgttt aagaagggtg gctcgaaaat 1140
tgaccagtgc agggcccaag ggcttctgt ccctgaagag ttacagcgag aatttgatct 1200
gctcaagaag aaaaagacgc aattgagtca ccagattgac aacgctagag aaaaaacca 1260
ttctgcagcc cgcgatgccg accttaatcg ccgacggatc caacaggaaa ttattgatgg 1320
agctcatgtc atttgcgcca cgctcagtgg tagtgggcac gagatgttcc aaaacttgag 1380
cattgaattc gagactgttg tgattgatga ggcggccag tcgattgaac ttagcgctct 1440
cattcctctg aagtacggat gctctaaatg tattctcgtt ggagaccca acaattgcc 1500
acctacggtc ctatccaaag ttgcatcgaa gtaccagtat gagcagagtt tgttcgtccg 1560
catgcaatcg aatcacccca acgatgtcca tttgctggat attcaatacc gtatgcatcc 1620
agcgatcagt atgttcccgc gtacagcatt ctatgacggc aggctacaag atggctctga 1680
tatggctcgg ctgcgtactc gcccatggca tcaaagcgag ctctcagtc cgtatcgatt 1740
ctttgacgtg cagggctctc accagagcgc gccgaaaggt cactcattgg tgaactttgc 1800
agaattgaaa gttgcgatgc agctatacga gcgcctacta aaggatttca aagaatatga 1860
ctttagcggc aaagttggta tcatcacgcc atataaagga cagctgaggg agctgaaaac 1920
ccaatttgcc aacaagtacg ggaatgctat cttcaacatg atcgatttca atactacgga 1980
tgcccttcca gggtagagaa gccgaagtca tcatcttctc ttgcgttcgg gcctcgaaca 2040
aaggaattgg tttcttgtcc gatattcgtc gtatgaacgt cggcttaacc cgcgcaaaat 2100
catccctctg ggttcttggg aactcgcagt cgctgggtcca gggcgaattt tggcgcagtt 2160
tagtcacgga tgctcgtcag aggaatgtct acaccgatgg tgacatcctg aaactccttg 2220
agaagcctca gttcacgggt tacaagaacg ttgagatggc tgaagccgat gcgtcagatt 2280
ctccagcacc atcaaggcct ctttctgctt cgtctgtttc tcgaccgcct tcggtgtctc 2340
ttgagaatct tccgcgggag tcgcctgtct ctgcaggtgc gtcaggaaag gacacgccgc 2400

cacttaccaa acctgaagga ccgtcaggtg gcggtaatgg cttggacgag acacgcaatt 2460
gtggcatttg tggtagcttt gcccatatga ctcttaactg cgacaacgag gagtgcgaaag 2520
aaatagctcg tggttaactgc ttcagatgtg gggaagttgg tcatacgaaa ttcaactgta 2580
cggcagaacg ttgtacagaa tgtggacagt ttggccatac ctcacagact tgtcgctcta 2640
ctaaattggt gtcgaagcaa gagagaatga aaatttcgcg ggaggagctc caacactcca 2700
ggaatcagaa gcagcgcgcg gaaaagcaaa ggctcagaca actcgggtgg catgaccgga 2760
aggtgcctgt tatttctgtg tccatggaca agccaaaaac ccagggctcc gacgccccta 2820
gcaagcgcaa acgtaccgac tcgccctctt ctaatgcttc caaggcccca cgaacgagca 2880
agggtaatca aggtgcgccg ccgaatgcac caagcggctc gaagaccag cggcggagag 2940
tcgatgcgga tgttctctct ccaagcagag aggtgagtcc atattccatc acctcgaact 3000
ccatcagatc tgactgacgc ctactcagaa tctgatgaag ccctcacgtg acgggccagc 3060
gtatgctccg ctaactgaca gtaaaccaac tggcgggtcca cagacaggcc caagtcctac 3120
gagcgtatgt ttagtaacta atacaccagg ttacaaatcg ggctatgcta atgtatcgct 3180
tttccatagc ttactctctg tccaccgcaa caacggccag gaaacggagt tcgaccgctc 3240
cagcccatgc ggaagaagaa agacgctgac cccttcattc ggccaaagcg tcgataaaca 3300
ttgtgagtgg atatcgcccg cttgatgtta ctaccctta catgcatata tcctgagatg 3360
cagctgctgg aacggaaccc ccagagctgc atcattctcc caccgcgcatc ttgctgccag 3420
atcttctcct caatcctcaa tgcgtacttg gctcgtcacg cattctgctt ggaatttttc 3480
tccggcctcc tgcacgccc gtaactagca ggctccacaa attcgtttct tgcattgcatc 3540
tgtgctgaat gtaaactcag cgcagacggt cacttaaaca tgacatcatt aaatacacgc 3600
agcaaaagca tattgtggcg tttgggttat cgctttctga tccctttact ttctgaccta 3660
ctctttattg catgtctctg ggacagtggc cttgggtggc agatcctgga agagggaagg 3720
gaggcgggtt ccatgtgcat ataccgggtt cttaaacaag acgaggttat ctttctcgta 3780
gatagagtat ggcccaagtc ctgtggctcg gcagctgcca cagcactgag gccgacaaca 3840
gacttcaaag tagccgaacg ctcgctcaca ggccattggc ctaaggagcg tacgacttgc 3900
aagtttagaa ccggctctac tgctctgtca ccacttgtga attccctctt tggagaagct 3960
cgagactcag aagaggtaca ggaaactagc ggcgctagac gatccttcga cgcgtacagc 4020

ttataccgtc tcgtatccca agaaccatac ggcacacccg gtctagctgc agaagaatgc 4080
 agtgaacgac tcgtatacca acgtcagctt agccgatgaa acaacaattt aatgccatag 4140
 ttacaactgc accgactgca aagtaagagc cggagccaaa agagaccagt aaatgatcga 4200
 gtcgtacgat gtttcgacgg ggacagatga atattaactc tggggaccaa tctcatgggt 4260
 agagagacag atcaatgggc ttcaaagtat cgctgcaggg aagggggcct gttctcaccg 4320
 gcgcacgag tcgagtcttc attgtcttgc ccctttgagc aatcggtact gtacaccatt 4380
 tcaatattgc aggaatccag gccaatccct gtttattggt tcctattcgt tgtcttgatt 4440
 acatgaactc caatggcggc aatcctaagg ttcgctcgag gctttaggca accagcccag 4500
 acagcaaact gaaggctgac tgtatttgct atagtttgta ccgtcagcct cactcaccgg 4560
 tcctctgtct ttaaggtcag tattagctgt cgatatcttg agtgtgaatt gtttcctata 4620
 gtactcgaac tactgattct ttattctttt agactcgagc caaaaatctc taattattgc 4680
 cgtaatagga tgagtctgaa aattgaggcg tctttaagtg gtcccagtgg ggagcagtca 4740
 gcaactgcca actgcaatgt gatctgtcac gccgcactc gatccctcca acactctcca 4800
 acttacgctc ccgctatcac tccactacac ttcaatattg attcgattat ccttttcac 4860
 tctttcttta aggattcggg gatccactct acagagtttg ctctccagt ttatgcaagt 4920
 gtcgcaaaat actccgtacc atgacgagga ttccatctgt ctgccactac cgttagcgtc 4980
 agcgccgtgt ctctccattt ctctttttga gggctctgtc tgggccatcg ggagctccaa 5040
 gtcaccagct ggctgagcaa tgactccaat gagagcagct gtcctcacc tctccacttg 5100
 ttactctgat cattatcccc cggtaatcga tctcgtccc tccgagctgt tatgtccgtg 5160
 aaaacttaca tctgttctgc gtcagccata ggattaattg agccttaatg gtcaattgta 5220
 gcaatcgacc attaagctct taaaaggga cccgtatccc attgcggcct gcgttcggga 5280
 attattccag gtgtccctta cgtcgagccc agggacatcc atgccttctc aaagcccgat 5340
 caggaacgat ctctcgagtc ctacgttgca caacggggag acccatgcgg ttcccatcgc 5400
 gtgcgcgggc gaatcgtttc tatggagcga cttcaagctc ctagctcttc tctttgtgtc 5460
 tttgggattt gcactacctg aataatgagg caggcggcag gcagcatctg caaaggaagg 5520
 ctctttgaaa gacaataggt tcgaagtcaa taactgagtc cacgctctcc agcctgcggt 5580
 ctctctccgg ggcccatcac tcccagcaa cactttgagc ttggacatga tataatctat 5640

caataccttc catgggatca tctccttaag aaaccctggt tgaagtttcc tcgccaggca 5700
 tgaataaaac cgggatccag gatcgccct caaccgtcgt ttagcaatct ttgcttttcc 5760
 cgccatggtc cctccaaga ctaacttct ctgcggtcga tcaatagatc caccgcccgt 5820
 gcagtagaca ctgcatggtt cattgccaat gcctcccctc tgtttgccct ggtggcatcg 5880
 attcctagcg cacagattaa tggctcttct tttgtccaac attataactc aattatcgag 5940
 agtcaactag tattgattcc aattggctct gcattgtctc tacatttttg catcgagcgc 6000
 ccattcgacg aaagatatct ccgaagtcag gaagaatatg atagctcaat ttcttgaaga 6060
 gttccttctt aaacctgggc gaatctgctg tacctcttca cccagagagc ttttcgtttt 6120
 ccctcgatga ctagtagttc gcaaagtcg gaccgcaatc gcgttgctag ctgtttgtag 6180
 ataccaacgt cctcaattcc aatttacc aa cttccttcga ctgtcttcac gcattgtatt 6240
 cgtttgacct ctttagtcgc ttacagggca ttgttggttc gctggacttt gtggcaaacy 6300
 acccttcctc ttccgagact ttcaagaata caacgtgcat gttggacacc ttgacttgac 6360
 aacaggggccc ccaccgacaa cgtcaaacac tgagcctcca taccatttga cacggattca 6420
 ttctacctcg ctatcggtc aggtcaggc ttaggcgtga agttcaatgc aaaagcgcag 6480
 cgacgccgga acggtcctcg aggcaccgag tccaaccatc ccgacatacc ggcccagttc 6540
 tcaatcatcc aaacgcacgt acaccatgtc ggcactcgca ccaaagtacc agcagtacct 6600
 gtcaatggca gatgatatac agtctacgga taccaaagcg cgatcagaca atgagaatgt 6660
 cacggaaata gttcgattcc ttcaatacca cgtaccacg cccgcgcaat cgactggacc 6720
 cagggacatg atcaaggctg gacagaggcc cctcaagctg gcccttcgga acaaagagga 6780
 ccgggtaaag ctcaagccga gaagcatccg taactggagc actcacaacg ggcttttccg 6840
 agatctaate cgaagatggg cacagcagag tgccgttacg gcgtcagctc agccgcctgg 6900
 ctagtataat cagctaacag atgtagcatg ggcgtgctg acaccgtgaa aagatagctg 6960
 ctgaggaaga caggcgctg actcggtcga gtgtgacgcg ga 7002

<210> 5841
 <211> 7927
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 5841

gagcagtgtgta gcacggcgct gactagccta cgaatacata gcgtggcgagg ccgaacgggtc 60
atctattgac caacgcggca gggtttcccg gaggcgcgcc agagacaagg ccatccaaga 120
cagggactcc cttcttttga aaattctttg cctgtttctgc gggcttcttg aaaccgttag 180
tctgtccttt gcactttttt gcattttttt ttttgcatth ttccattttc ttttccccat 240
ttctcttttt tcttttttct ttgtttttct ctttagtttc gccgcacgcc agccacaagt 300
ggtaaggcaa ggctccactt gggcgccctgc agccgtatct ctgactcgaa ttcattgagtt 360
gtagctaggt gtatggggac ctacagagaa catcgagcaa gatcgagatg tttcgtagaa 420
cgagacagat aaccacacct ctctgaggcc gagtttgtca ctcaaaatgt tgtacaactg 480
atcctgcatt cacctgcagg cctttgcagc cttgccgtg ttgaaagagc atcggaata 540
atgagtgggtg agtcagggtg agtctcagcg ccaacagacg ccttttagcat actactgctg 600
gcatcagcca gggttgggtc tgcgaactag gagcctagag ccttctgcgt agacgccaga 660
ggcctcgact accggagtag acctaagacc cttgtggtat agcgtgggtc agattaggca 720
ggagagcagt aggtcggatc cgaccggggg cagagccagg taagcgggaa aaacgagggtg 780
tgacaggcaa ctgtccgatg tttctcgttt ctggagcagc tcatgaactt aaatgtgaca 840
gaaggaaata ataataaaaa taatgataat aatgataatg actgaagatc aagtcggcac 900
agtaaacaca gcagccagcc cttgcctcaa aggtcaagc accgtcttct tggcgatccg 960
cagatcctgc agccatcagc caactagggt ctgcccacc ccggtcaggc cgtcgtgccc 1020
ttttgtctca cgctctcaa acttcagtgt cagccgtcag ggactgattt ctaggtgat 1080
atcctcgctt tgcccttctg ctgcagttcg gctcgggaa tcttccttca gcattaacgg 1140
gccgcacagt aaaaaaacta tgatttgga tctacgaaca tcattcaatg tttcgtctg 1200
cagtgggaac cgaaggccga taaagcgata aaagccttgt aggagcagac tatagcaatt 1260
gattcactct aggttgtaat caaatgttct ttgatctcgg ccagttgtag gtgtcaccg 1320
atttttccca tgttttgcaa ggaaattttc tagtttggtg ccacctcaa acgatgtttt 1380
ggctgtgacc ctacataagg ctgcacgagt cctgttcct ggatgatagt cttctaggat 1440
acacaaactc tgtaaacaat gcttgtcgcc gaccactact actacctaca tacctaattc 1500
accccggtgc caacctgagc gatttactgc tttctgagc gacttccttg cagcattctg 1560
ccgcaactgca ttgcatcaca gtgagtagtc cccgtgttct ctgttcttgg ttcttcgagc 1620

acaacctggg aggcagatct tcagatccat cccctccact gtcccgccaa gttgactatg 1680
 gccataataa tgaattggaa agagaaatgg catcattctt caaatcgctg ccaatcgact 1740
 tatctgagtg gggcaccgac ctccgctga taggcgggcg tttggcaagg ctctggctct 1800
 gagtggattg ctgtgattgg cttgtacgcc cccgctgagt ccagactagc cccaagtgg 1860
 accccagcaa agttggctga tcagcggcag ccacacatc acttcatctc ccagntccag 1920
 ttccacactc tgactttcag tctcctcag tccgttatat gcccgccgc tctccctttt 1980
 cttactcttg actctctgct tgtcatcagt aatagcccca tctatcgta tctttccttt 2040
 cctctctttc cttggctctg tatcactctt gggatgcgt tatccacca atgattcatc 2100
 tctctcggg cctcgtctc ttttccctca ctaaccgcc tcttttctt ccagtcctcg 2160
 tcacttcgat cagaatcctc tgaaagtatc aagtcacacc atccgtttcc tctcggcttc 2220
 tcgcatctga accctgatca ccggcacgtc gacgtgtctt ctactcctta caaccccccc 2280
 agcgagacgg gcttaccctc ccttgtctcg ggtaagggga cagagtgcaa taatttact 2340
 cttaagatac gttcagtcaa ggggacgacc gctaagcgcg atgctgaaga agaagtcttc 2400
 acaccctcct ctactcttct ggcacagttc cccacttct actccagaac tctccccgac 2460
 ctcgatcatc tcggataccg agtcggacga ggacatggac gcctctggtt cagccccgt 2520
 tagtctggct gttcctcagg gcaccttctg tccgatgcgt ccgactcttg atgaggtgct 2580
 cggaatacgg gcacctgctc cttacacgct cgggtgcttc atggcctatc tctcgcagaa 2640
 tcattgcctc gagactttag aattcacatt ggatgcaaag cggtatcggg aaacatataa 2700
 tgagctcagc cgtcaactgg gacagtttcc gatcgaggct gattgttcgg agagccgaca 2760
 tctgcgtatg ctctggcaac gacttttctc agcgtacatt ctccctggat ccccgcgga 2820
 aatcaacgtt tcgagtgagg tccgtgatga tattcttcga catgccaact cttctatccc 2880
 cctcctcct tcgatgcttg acgcgcggt taaacttggt cacgacttga tggaggagtc 2940
 gatcttcag cgtttctga acgcccactc atcctcggcc catgtttacc cactctcgga 3000
 acctctgttt tctcaggacg atggtggtgt cacaattgtc tccaaccgga gtctcgacga 3060
 gcacgcagtc aagcgagtc gatcgaaagg ggggcgcta tcgccccggc aatcgcgga 3120
 gttgggatcc cccatttctt cgagcccgcc ttctagcctt tctcgttcca atttctcct 3180
 taatgcggtc acttcgcttg gcaaactgtc tcacgatcg tcaaaccagc cgtaagtgc 3240

aagtgggggaa tctgggtcag ctggtttgtc tgacgactct ggcagtatgc agtcgagcgc 3300
tggggagcca atgaccccc cgacgacccc gccctctagc gagcccagca tgcagacagg 3360
cagtccgaag aaccgcatgg ataaccctg aaagaaaatg ggtatgaagc tcgggttcaa 3420
aagacggggc ggcggtagtc atagtatgcg actcccccat gaggaatgac taaaacgtcg 3480
tggcacaatc ttccggtggt atcaccacca caccttcgct tcaaaaaaca tttccgactc 3540
aaaactcttc accttataga acgttacaag ccgatttcgt acaatgatta cctaccacga 3600
ttttcttccg gccccgggaa cgggccatgt ctaaaccgac acgaatggac ggcataatgc 3660
accggcattt ttccacgaaa gcatttttat caggcgttat tctcagcgag tgagcgagca 3720
ttcggtttgc aaaagaatag atagaacggt ccatatggaa agggaggcat tctgcctggc 3780
gttggttttt tcccgtttgt tcttttaaag acggtctgtc tggcttttat catgcatcat 3840
gcatggcgag caataacca taccactcgc cttcagtctt catattactg atggcgagct 3900
ctgattgcat tgtttctata tctgacatac gcattttctg tgtgttattt acaccgcatt 3960
ggcattggca tggcatttac tatacgagtc tagatacca atgtgtgatt attccagcgt 4020
aacatctacc attcacagcg tattctaact caagtagtac gtcattagt gtcaatcgcg 4080
tagccaagag tacctcgta ggaattaaaa gacacaaca ctcttcttcc aatccttgtc 4140
tccaacgcgg atccagaacc ctgcgccatca ccgtcaactt cccaccgcgc tttcctgagg 4200
gattcaatat acgtttcgaa ccggtcacc tcgttaagat agttcaatgt gcgggagagg 4260
attctgagga tatcctccac atgcagtgtg ttggagctac ggaggtcgta tgacctagt 4320
tgggagctcc aggccgacga cgaagccaga atctttgcgg cgaaaagggc gtgcatccat 4380
gctttgaggt gaggatttga tttggatttt aggcttggtg aaccctgtgt ggcgttggtg 4440
tcccgctggt tgatgaggac cgctgcagat aaaccggtag tggatgccc caggaaagt 4500
attttgctgc tcggtgtgag aaaaaggata tactcctctt catgaaagag ggtcgttatc 4560
tcttctagtg gaaggccgt cttcagcgtg ttggatgtcg agctggtagt ataaggcgcc 4620
tgacacaaga actgccgtag cgagacgcca acctggcacg atcctagaag ttgtacttca 4680
ggtaatagcc ttgatgaaga ggaaaattgg gaggggggag agtgccactt tagtgacgcg 4740
ccggcagcaa atatccgttc ttctttggcg acttggtctg gggttatggg tctgatatgg 4800
tttggattct ggtgagtatg ttctgtctgc ttgagcgaag ctctgcgtc gtcttttccg 4860

ctagggctcg aaacgaaatc cgcaagggtcc gggctctgagg agagaagagt cgaaaaaaca 4920
 atattggctc gttgtctgtt cagtgtcgtc atctggacag agcggacggc ggcgtaattg 4980
 agtgacaggt gcatggatag aaggaagacc agggtaagcc atgttgccgt gaagctgggtg 5040
 atatgagaga cgacgaagga gccgacgagc atgccgatga gggagataac cgtttccttg 5100
 gatgagtctt tctatccgcc cacaactcga cgagaatgat tagccttcct gcagtgcctg 5160
 ataccgggag catagcgcag tgagagctgg agaccaacgt accgcattca cctcggccag 5220
 atttcccat cgcgaaaaat gtgcgcttaa actcgctttg gaactgcccc ctgcaacacc 5280
 gcaaagcgct cttagcacac cagcagcact aaggacagt actcgattga acccggcccg 5340
 gaccatcggg gagaaacagt ccagcaacat agcgagatcg ttgaagatat ccgccgcaaa 5400
 gcggtacatc ttgactcgg gctcaagggc tgtaccaca cggtgggcga agaggattgt 5460
 cgcgatccgg ccggatgtat cctgcaagat gtgcaggagg agagcggagg ttggggaggc 5520
 gttggcatta ccgactccga cgctgcatg aatggttggc taagctagag ctctatgcaa 5580
 atgcgtggat atggatatgg gatgttgtgc tgaccttgta gtacggctcg ggatgctagg 5640
 agggccgcga tggagctgct gaatgcttgg agagagtcct tataggttaag taatgccagt 5700
 gtatgcatgg cacggagcag cttccgaaga ttgatatct agtcagtaag tagtgctact 5760
 gcaatctgac caaccccaaa tcaactacgc ggtatagtca tcgctgacgc tatgtggata 5820
 tccagcaggg tgaataactt cgattaatac gtcgcgcagc gagctcagag accatgattt 5880
 cgaggggtga gatgcatgct ggtgtctgtc agttgcggta ggtcaggcgg tgggattggc 5940
 tattgaagac tcaactactat atctatgcgg cctgtaactg tgtccttctc tccacccttg 6000
 tgggacaggg tgctgatga tggcacagag taaatatagg tcgacgttgg gtggtcaagc 6060
 tcgtcgacct cgctgaaagt gaagattttc ttgtctttag tgtccatatt tatgaacaat 6120
 tgaaatgcaa gcaataaaat ccgttgataa cccgcatgct catgtcatgg aggactaatg 6180
 aagatgaaac gaaatctagg ttgccgccag atagttgatt ggaggtgttt atgcgaagcg 6240
 gcgcttaagc ttaccatag gcgatcaggc ggatgcacgt ggccgagagt aggaaacgct 6300
 tgcaaagtat cccaggatgt ggaacataa tactgtttac tgattactat cgatgctgtg 6360
 aatctacggg ctacaacaga acatttccgt gtgtcagtca caattactgt agacttgaat 6420
 atggacatga atgtgagact tgctccattc catacttttc caaactagcc atctatgacc 6480

tcaataacct gataacaaca tatcccgcgt gatgcgcgcc agaagaataa aatgaaccgc 6540
taagcacgaa gactagcaaa accgcctgcg ccataaacia aaaaagtcga aaagaaagtc 6600
caaaggccgc ggacaaaccg ggtcttagta tagcactaag gctcgcatc actaggaagc 6660
gtatcagcct cgtataattg cgaacgacag tgggttgtgt agcgcccttc tcgcgtatca 6720
gcatgccact cgtccatcgt ccgtgtcttg gatatcgctg tcgaatcatc cgggtcaaacg 6780
cagtcagcga aatcaagcgt agaggctggc gccaccagtc tcgatggcac gctatgtatt 6840
cctccatgtt acgatggcgc gggcctctca tgcgctgttc agcgcgcgcg aagaactacg 6900
cctgctgggg cttttcatgt ccaaggccaa ccgactgtt ccggcccccg gtgccctaac 6960
ctatggtggc accggcaatg ctaccggact gatgaccctt agtgcgccag gccctactgg 7020
ctccccgagg gccaccgatt gcttactccc cagtggtcc catagcgtgg gcgacattac 7080
catattgcat gattacacga taatgatctc cctgcatcat attatggtgc ggccgtgcag 7140
catgatcagt tctgtttttt ttaaactctt gtatacctgc atgaaccgcg gatttaacct 7200
ttctctaggg gtaaaaaaga attggcagga gtggcagaag tggaacagtt gcaagggcct 7260
gttgtttact aaccctgtca tgctacccta acggatgggg agaaagatga acacctgtca 7320
aatgatggga ccctgtgacg cctgtacctc ttttgaagct gttacttcat cacacaagca 7380
cgatgtata tagaagcata cttaatccta taatggacct gaatcatctt tatactaccc 7440
gtaaacttgc aaatccgacc agggctctgaa gtgctgaagc gaatagataa gtagaccctt 7500
gcaggagact tttgggatag atcccaatac agtgtgtcta cttcaaactg cacttacctg 7560
cgggtcaaac acgacgagta ggaacgaagt ccagagtctg acagctggtc actcctcgtc 7620
ctatggggag gtcagcgcta gtagcatgtt ccgtcgctgc actgcagagc agagccagaa 7680
ggaggccata gctcgaaagc ttttctacct ttagctccac attcagttat agcttacgta 7740
cctaggtcga acgatggagg cggaaggagg tgcggaaccc gggctgagca acgttgta 7800
gaggatcatt tggctgcgtg gcgtttgcat aaactggtta ctagtctgcc tatatgtacc 7860
caggcgagtg aggaggggaa ttcacctca agaaaatgaa gaggctctt ttatggccag 7920
aatatgc 7927

<210> 5842
<211> 4278

<212> DNA
 <213> *Aspergillus nidulans*

<400> 5842

```

tgatttgatt taaccacgaggccgagga aagcctcaag gaagagatca ttattgatga 60
ccttgaggac atgggcgaca ttcacgaact atatgatatg ggtgacttgg tgatggtaca 120
tcctttcgac ggtgatatgt acgaacatat actcgaagaa gtccgtccta gatataatcat 180
catgtacgag cccgaccctg cattcatccg gcgggtcgaa gtataccgca gctcccatgt 240
agggaggggac gtgcggggttt acttcatgta ttatggtggc tccgtcgagg aacagcggtta 300
cctgagcgca gtgcgacggg agaaagacgc attcacaag cttatcaaag agaaaagcgt 360
cagaaccag ctaagctgta taaacaaacc aaagctaacc atcaatagaa tatggccgta 420
accctcacgc acgacaaaag cgccgaagat cccaagagc aattcctccg cacagtaaata 480
actcgcatcg ccggcggggg cgcttgaca gcaacagcct ccccccgcg tgcgtcggtt 540
gacgtgcgag aattccgcag cgctctgcc tccctcctcc acggcaacaa tatggtcatt 600
gtaccctgcc agatcacctg cggcgactac atcctcacc cgacatctg tgcgagcgc 660
aagtccgtcc gtgatctcat ttctcctc cgcaacggcc gcctctacaa ccaagccgag 720
accatgacgc aacattacaa atcgccattg ctgctcatcg aattcgacga gaacaaatcg 780
tttacttttg acgctttcac gtctgccacg acgcccggga caacattcct cacggatttc 840
ggattctcct catctggaac cgtaactacg tctctatcat ccagcagcgc gctgattaac 900
cccttcgagc caaagtcagc acaacacctt ctgctcctcc tgacacttgc attcccgcgc 960
ctgaaaaatc atttggctgt catcaccta ccaaacgcc gagatcttcg ccgagctgaa 1020
gaagaatgag cctgagccgg acccgtccg tgccgtgcaa attgggcttg atgtgaatat 1080
ttcagacgat ttgggctccg gggatctcat gactgcttcg gggattgagc acaggacgtt 1140
taatcttctg ccgcaggaga tgctaaggcc tggtccgggc gtatcgccgc aggtgttaga 1200
acggttgatc ctgagacgg gaaatatctc cgagattgct aatatgagtg ttgaagagtt 1260
ggatccgttc atggggaggg aggctgcgag gcaggtggtt ggattttttc ggaagagtgt 1320
atgtgacggg gattgatctc taagaatcta cgaatgaaaa tgcggacatt gaagatgtaa 1380
taatatcata accctttcat aaatctatca tccaagcttt ttcaacaaaa aagaaaggag 1440
caagtagcag taagtagaaa gagaacagac aaatgaatcg gtgacaggac gtatgccagc 1500

```

acagctgaca ccgtacatgt agcgtccgtt tatctgcaga acctggagaa cggctccatg 1560
 atgagatgtg cttggaaata ggacatccaa taccaccatg gaatggtgct ccggtaaccc 1620
 aatatcaatg atccatactc tggagcttga aaagcactgg tcttctgacg gtgggcagtg 1680
 gaggatccca caagcccgat tcctcgtcac agtatctatc accgacggag ggtgaacact 1740
 gcaccgggat agaaacgaag tgccgaaagt ttgtcgaagc tggcgggaag aacacagtgg 1800
 ctcttgtggg agtatagaat acaaagatat cgaggggtgg gtagggtttt atagttcgtc 1860
 gatatcgacc tccttctcgt cttecgctgc gcggtcttcg tcgaactcga cgttgtcctc 1920
 gaaaccctca tgaccgtagg tgtcagtttc gttgatcttg gcatgctcag gcagctcgcc 1980
 gtaggccttc aagctcctgg cctcgctggc ggtatatttc atgatgacat cgcctttttc 2040
 gtcttgtagg tcacgcagcg aaagaagaat gatatcgccc tggttgatcc agaccttctt 2100
 cctcagcttg ccacggatgt gtgcgagtcg cttttcgccg tcaaagcaga gggcctcgag 2160
 acggccgttg ccaagcatct tcacgacctg cgcatactcc tgaccttctt ccttgaacac 2220
 aagttcgcg cttctcgttg cgttttcgtt ctttccacga cgacggtttt taccgccttg 2280
 tattatgagg ttgtgttagc atattgtcta gtggcaaaca aattcgacgc ctatattata 2340
 tcggtcctgc tgcgctccac cgtagttgat ttggccccga ttatgttggg atttcgctgg 2400
 cataacattg tggtagagcc agaggcgaag ttgtgcggca caccgcaaaa atctgagagc 2460
 ggggttgaac ggagaagaga aatgaaaagt catacctttc ccttgttctt gggcatgctg 2520
 aaacgtccct agcagttggt tcttgccggg cgtaatatgt ctgatcagca gtacgagata 2580
 gaccggggtc ctgaatgaaa ggaaatggca gccgaagcga cttgaaagtg gggggattgt 2640
 gcctttaaat aaaatcgccc gctcttctga atcacgttag gggacgatta tgtcagcgat 2700
 gcgtggcggc ctgaagtttg ccttgtctga acaacggatt atatttaccg ccttgatgt 2760
 ggcggcagaa ctctggatcc gactattgct ggggctggtt tgttggactg cggagtacac 2820
 tgagttcaat cttaacgaga tgcttttgc cgccgaatga tacaataata ggtgcattcc 2880
 tgtcgcgttc gactccctcc ggggcatata tgatctgct gcgcagattc ttttttctt 2940
 tcttggcgcg ctcttcaga aaatgaagac catcggaaca aaaaacttgt atactgcgag 3000
 gttctctcca aaccagatca tctaccaat tgctcatcgg tatttaacgg caagagtcaa 3060
 tcccatcact ccgaagatcc agtatctatg cgacaaccgt gatcgcaata ctctctggtg 3120

gaggggtttca gttagcgcat tggtttctta caagcgagtg gttcgatcat gggttgcgcg 3180
aagagcgca gcagcgttca aacaggaact gaaagaacgc ggatttgatg cagagggcag 3240
gaggctggat tcaagtactc cacgctctgc tgctgcgcgcat ggcttttccg gcaacatgac 3300
agggactctc aatattgatc ttgaaccggc tatgatttcg gcgacatttc ccatgattcg 3360
ggaggagatg aagttcacga tgaatgcatt gattcaagag caacaacgga agcaagcgtc 3420
tcagcagcag ccgcggaaac aagcgcggaa ggcgattaga tcccctacag atgcttcggg 3480
tccagagcaa ccacgggagc aaactccatt tcagcgtcca cgcaaacaaa tgtcgcggaa 3540
ggagtcagct caaagtgcag gtggcaaagt ttaccgcaat tctattgaac gtggaggcgg 3600
aacgaggcat taaggcctaa tatttacgaa gctcgttaga tgatacccat gtataattaa 3660
ttcaatagag ttatagatgt tgggtccccgc aacagacaag gaacaggcgg aagttcaaaa 3720
tgtcagaagg ttgtataaat tcatttgtaa ggaagctaga aagggtgtgc ctgatgacga 3780
ctgcttccgc tcctgctcct gctcttagca cgcggctccc cagtctggct ccgtctggct 3840
cagcttggca ttatccccag accggtgccg ttcttctcca agtgataaac gaatttcaac 3900
ttctatcacg taccatccct ttccattcag cgttctccct tcttttggtg gggcactttt 3960
cttgctgatc tgccgactcg tgctttcggt agattgttgg tctttttgac cgtagaatag 4020
gttgctcttg tgtagtcgc ccttattctt gagatcattc gctattaggc cctttttcct 4080
tgataagtgg ctcttaaag tatgtgtttt tttgtttctt gtctttttct tttcctgatt 4140
attgcttcct cgttttttat ttccatactc ttcccttcgt cttttgttaa tacccttctc 4200
ccattttttt ttttaaggta attttttcat cgtattatat ttatgttttt tttaatgagt 4260
ttattcattt gcatcttt 4278

<210> 5843
<211> 4253
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 5843

ttcgcttctt ggctacgaac ttcattccaca tccatcatat ctgcgtctcc ttcgtcatca 60
gactccactc tttcctttcg cttcagaccc ttcattcttc tcgtctgcaa tccaccacaga 120

tcctgcttgg ctagatgcac ccgaccaacc ttgtcaccga ttaaataaat accgatgttc 180
 ttcttgttct tgatctctc gtctcggtttc ttgccctgct tcatggcctc tttcatgacg 240
 tcgcgagggtg cctcttggat acgtccgact ttgaagtcga gcttgggtcc aatctcttcc 300
 agctccacgc gaggaagctt gtgtccgctc cgcttagtga cgatcttgta ccaccgtaga 360
 tgaataatag gtgccagacc cgccgtaggc tcctccgcac caaccataag cgcatactgt 420
 agtccttcaa cgtcaatctt atcactgggc tcgcccttga atagatccac cagcatgctc 480
 ttcagcatcg tatgcgtcgt cgatgtcgta tcgtcccatg cgctgccgga aaagagcatc 540
 agcggccgca gaccgatggc gacatgcata gaaagcctgt tcatctcggg aatccccctcg 600
 ccattggcat cggggaggag taacagctca gccatgtcga gaactttgga gtcaaagatg 660
 cgcgcaattg tcaggcagtt gggcctcttc ttattgctgc ttccgaaaat taccatgccg 720
 cagtcattct tgttggccag gaattcgaga ctctcggtac tctcgaacgg gtgaatgttc 780
 tcatttttct tgtggaagag gacggaatgc ggtgtcgtaa gagaatggaa aactttgagg 840
 acagtatgta ggggcgtagg acattttgac ccattggagca gcaatacgcg ctttgcacct 900
 tcaatgagtt gaggttcttt agccttgagg atgcgtgcag tgcgcgggtt ctttggtttt 960
 ctgtgcagag atttaccgtt aacaaatgcc tgttgcgag tatagactag acaacataaa 1020
 tgacgaaaat ggagcagtaa gacgccaaag tagcagtcaa tcacttacac ttctcgaagc 1080
 atttttatca gacagaacgt gctacggata aagttggtga tctttaagtt ttgctacgtc 1140
 cggtaaaatc gttggaaaaa gtttgggagg agagcgcttg gcatctctta tcgataagcg 1200
 atatttgatt gtttatccac gtatacattc tatcaattga aaaaacaatg cgaccgtagc 1260
 tggaaataga tatccatgaa aattaaataa ttcattgtct tacattcgaa aatacaaaag 1320
 gtctcaagtt ataactactc cagccgcagc ttttcgaatt cccgaatctg ctctctaac 1380
 cgagcaacct cgctttcggc atcccggagt ttcttctctt cctgctcacg cacttcaggc 1440
 tttgccttct ctttccaccg ggcgctgttg atcaaagtag tctggcgacg gacggtttcc 1500
 tgcgccttct tcaagctggc cttgcccttc tcttcttgtt caagggcaac ttccttagac 1560
 acacgaaggt agacagccgc ttgtgaacca acaggagcaa cgacacagcc tgacggaggc 1620
 gtggtgttct cgggtccgag cacactgagt tcaccaagag tcttaccgcc aagagacttg 1680
 acaatatgaa gctcatcgga aacagtcttg tgactgggtg catcgtaggt ttgaacgata 1740

acatcgccctt tagtcttgac gtcgtattga gcgaggatcg aacgaatggc cttggacgtg 1800
 ttcaggataa gctcataagc agtttcggct gtagagtcgt caaattcagc cttgtactcg 1860
 ggaaacttgg ccttcatgat cgagatagtg ttgtcgccag gacggcgcgg cagacgctgc 1920
 catagctctt cggtgataaa tggcataata ggatggatca tagtgagagc gccttccaga 1980
 gcggtgtaaa gagtctgctt ggcagattcc tgcacttctt gtggtagctc aggggctagg 2040
 agagatttgg agttctcaat gaacacgtca cagagctggc tgtaccagta ctggtaaaca 2100
 gtggaagcag catggggagaa ttgcgatcc tccagggcta tgttcacctc cttagcggcg 2160
 gcgttgaatt tgtgcagaat ccagcgttca gaaagagatt ccttgccagt ctttgtcggg 2220
 gtcggcagcg gcttgaaatc atcaccaagc tttccaagaa cgtacttggg agcctggtaa 2280
 atcttgttac agaacttacg gtaccctga atgacctgga tgtcaaagc gatatcgccg 2340
 ccttcaacag acaattagaa tcatacgcag tgccaaaaca gtgtcactga acttaccacc 2400
 ggtagttag gacacaaggg agaaccgaag agcatcagca ccgcactcag gaatgccctt 2460
 tggaaacgcc ttcttttgat acttcgtagc ggtagcaacc tccttctcag caaggttacc 2520
 cacgagaagc ttggcatgga ggtcctcaag cttgataccc tccataacat ccaaaggatc 2580
 gatgacattg cccaaagact ttgacatttt gcgaccttca gaatcacgaa taagggaatg 2640
 acagtagacc tccttgaaag gaaccttgcc agtcattctg ataccaca tgatcattct 2700
 ggcaaccag aagaacagaa tattccagcc tgtctcgtga ttgatgtagg gtacagattt 2760
 tcgaaatcgt gagtctgtcg aggccaaccg tgagttgata acggtcagag gcctgaagag 2820
 aaccaggtgt ccagcacgtc ctcatctctc ttgagagtaa atttcttacc agggaaacttc 2880
 gcttcagcct tcttctgagc ctctcttca ttgcggccag tgacctcagag attgccatcg 2940
 ctgtcatcgc ctctctcgcc ctcgatttgt acaaagtaag ccggagcttg atgacccac 3000
 caaagtggc gagacagaca ccagtcgttg ataccacgaa gccagcggaa atagctcttc 3060
 tcggcagact cgggtctgat aatgatttcg ccgttctcaa cagccttgat cgcaggctca 3120
 gcaaggctct ccatcttcat ccaccactgg ggcttgagaa tgggctcgat aacatcgttt 3180
 gacttggcac agcggggaat cttcatgggg ttgtgctccc atttcacgta gaggcccttc 3240
 tccttcagca tctcgataac tttgtatcga gcgtcaaacc gcttcatacc ggcaaatgga 3300
 ccaccattct tgttgaaggt accatcgtcg ttcagaacag agatgaattc aaggttatgg 3360

gcctttccgc ggttgaaatc gttgaagtca tgggccgggg taattttcac agcaccggta 3420
 ccgaattcag ggtcaacttc aggatcagca acgatgggaa gtaggcgatc aatgaaaggg 3480
 tgacgcgcag ctttcccgat caagtgcttg tagcgtttgt catcaggttg gacagcgata 3540
 ccggtatcac caatttttgt ctcatgtcgt gtagtagcaa tttcaatcct ctcttagta 3600
 ccatcaatct cgtagcagaa gtgagtcagg acaccgaact cgaccttctt ctcatagccg 3660
 ggaacatcaa gcagcgtacg tccttcaacc tccttgttct cgacctcgag attggagaga 3720
 gaagtgttga gagctacaca ccagttgaca aagcggttcg aacggtagat tatgccccctt 3780
 cttatggagc cggccaaaag ttttaataaa cggttgggaa ggattgtcat ccctcggaaa 3840
 aagccttggg aggtcaaata aaaaaaccct cctatttttg aaaagattac ccaatttgcc 3900
 agggccctgg ggttcaaaaa cacaattttt taaaaaacc ttttggaccc cagaaagggg 3960
 ggtttttttt ttttttttca aaattttttt taacccccct tgggggggaaa cccgggggga 4020
 tatatttggg gaaaaaaaaag gggttttctt ttttccgcc cgcaaaatat tttttttagg 4080
 ggttttttta aagagcccc tcttttcaaa ttctcctctt tttgaaagag ggggggaaaa 4140
 aaaaacacaa acccctccg ggggcggaaa attaaaaaaa gggccccccc cctgtggggg 4200
 cccaaaaaaa tatacccccc tgttgtttct ttagggagaa ataaatnaag ggg 4253

<210> 5844
 <211> 4759
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5844

attgtctgcc atctggttgg gattgcatag tagggcagct tggccttgcg actctgatgc 60
 aaagcctggt tagcgcaatt ceggggcgtc aaaaagccag tgagttctcc attaacgagg 120
 agggccgttg cttggtggac attagggctg gaagctaggc atgcactgac cccgtccagc 180
 tcaaccctga acccctgctt gctgagttag ccatgtccat gtttgtcatc tataggtaga 240
 gagagcatat cttggccttg acttggtcac cgttccgtcc aagggtttca agactaccat 300
 tgggaaacca ccgcgcaagg tcgcccgtat tgtacatcac agacctcctg gcagagtcag 360
 ccgctgtaac gtattcacga agaatgcgcc actgcacacc catcatcaac aaacacgtcg 420
 taatgatacc gctccgtcgt cttctccggc ttgcctatat agccccgtga gacacccaag 480

ccgccagccc agattgtgcc aacttcccca atccggccgg gctcttggtg ccgttaatat 540
 gtagacatta ttgcttggtg tggttttcct atggtgagct gcatgcccg tgcgtatgttcg 600
 tgcatttggt tgatgattgt ggtttcggta ggcccgccagc aattgtagaa tgttgcagac 660
 gcagcccatc tgtctgccag tcttctttta tttagatgcc tggcttaata gtgtgcagtt 720
 agcttaccgt tgaggacatg gctcacctgc agtggccacg cgtttgatat taggaaagtc 780
 atccggagta tatcgtgcc aagatgctcg ggtgcagatc aggatgtcga tctgccagcc 840
 gcataaacag ttagacagcg agctgcacaa cgggaatcaa ttgttgtagc tctcttaacg 900
 ccttattcca atctgagctt ctcaagacca aagtcacccc gttagccata gtgcccagca 960
 cttcccaggc gcctggatct gtcagcacgc attgtcacaa tcaggaaaaa aattctgtac 1020
 tgaccatta tcgaagctaa ctgagaggag atgaccaact ttctcgccgc gcgatatccc 1080
 cagattcccc ggttcttggc agaggatgtt ggtgacgttc ttgtgcgtaa cgtccacgcc 1140
 tttgggtct cctgtgtac ctgcaatagg ttagtacagc tcaataacca agtgacctac 1200
 ttgccagacg tgtatataac atagcatcca gactctacgt ccccttcgcg ggggacttgg 1260
 tcttagtcta caacagactg tgtgtacata tcaccacgaa gaggagcttc ctatagaagg 1320
 attggtgaga ggccgccc aaagcaagt ctctctttgt actgctgaag gcaaactgca 1380
 actgtagcag cagactgctc aaccgcgcgt tgaactgtaa gatctgggac caccgcccgc 1440
 tccattggat atactgtgca cccgccataa ggatccccag tatcccagct accatttctg 1500
 tgcttcttct cccgagaaga aggactcgat tccctggcat caccgctcgc tgcttcagct 1560
 gtgcagcaat gaactgggac tggcggagca gttctccata ggtcacttct ctggacgagt 1620
 ggccggagag gtccagcagg gcaacatcca tgggcgcacg gagggcatgg tatatgaatg 1680
 cctcatggac agtagcaaat gggacttggg tacgaggacc gaaccggaac tgctggaaga 1740
 gatctgcgtt tctttcgctt gagaacctgg agtgggcggt ggacatgacg atgacagtgt 1800
 tcttcgtagg taagacgtat atgcgcggcc agcgagatca gactaggcat attctggttt 1860
 aagcagagcg tcgcgttgca gggatctcct tatataggag gaccaccgtg gtgccgtgtt 1920
 ctcatattgg ttttggttgg ctgtccccct gcaagccatc tccagcgggt ccggtggatg 1980
 tggatgtaac atttcttctt ctgtgagagg tgtctgaaag caaagacgag gttggtatcc 2040
 gtggttggtc ggctgttgg ttcggttttg gtgtaatggt ccgtatccag tggaaatgca 2100

gccagtaagg aaggtgggag gacagatfff tggtgacagc aagctcatca caaagctata 2160
 ttgcactctc cttcattcag gagtgagttg ttccggtgat cgaggtttgg acggcgaaatg 2220
 acattctfff aaccgtggtc aacgacaagc cttgccctca tccgtctcaa cctcaactgg 2280
 tgcaagccaa ccgttgctca aaaagcccaa tgcataatcag ttactgatct tcatgtacgt 2340
 aattacaccg ctagaagcga gctgagctct tagagattgg ctagtatat atgatcctgc 2400
 acatctccgg atggcctcgc agatfffccc catctggacg ggtcccaatc atgggaacat 2460
 ttatcaacct cggccacaga ttcacactcg tcttacagct gcgttcagac agtcgacagt 2520
 gttagcttca gcctatgaag ttccgtttcc ggcgtgctgt gagaatctgt cactgtcatc 2580
 cttggtgcta tcacccctgt gatgtcgcgc ttgactccct caacaactgc ggttcgcagt 2640
 tcataatcat ccatgtttca tgaacagcat tcgacaaaat gcaaccaagc tgagatgaca 2700
 agagaggcca aggtcatgag atcgccatta ttgatggcct acaggttctg tgggtactgg 2760
 gtgatgtgac gctggcaccg gcagcgatcc cccttgcgtc cgcactctcc ggggcaaaat 2820
 atgccattcc cgtctgcaaa gtgggaggta cataaataga tatagcttcc ttgcgtgcct 2880
 ttaatttctc ggatgctctc tttgggacgg tttctatagc aaaagaccat gactcaggcg 2940
 caaacccaat cacatctcca agggaacgat ctcactctcg cctggtcacc ctgcccagga 3000
 gtgcgcgtgc tcacgttgaa ccgcccggca aagaaaaacg ctctatcaca gggcttcata 3060
 gacgagcttc tattgcagct gaaaatatcc acaggcgacg acgatatcca tgcaattatc 3120
 gtaacgggct ccgacacagt tttctcagcc ggtgcagata tcaacgagat ctcgaaactc 3180
 gatgcagaag gtgccaagga aatacgtat cttgaggaac tatgcgatgt aatacgggga 3240
 gtaagaaagc cagttattgt agctgttgag gggatggctg tatgtttcca tccgtacata 3300
 ccacacagat gttagggcta aagtttgac cgcagctggg cggaggattt gaactggcgc 3360
 tgatggtaca ctgccagtat tacttcgat aatgcatgac agggctaate aatagcagtc 3420
 ggatttcac gtcgcaacaa ctgcctccga gttccgtctg ccagaactga caattggact 3480
 tatccccggg gctggaggaa cacagaggct gaccagtgcg cttggcaaat accgagtcag 3540
 ttaagattct actgactggc ataacaaatc cacattctta ttctcaagcg ctgatgttgt 3600
 caaaggctat gaaactgac gtccctgggtg agcctctgtc cggaactgaa gccacagct 3660
 tgggcttagt ttgctcgtc acggaaccgg ggcaagcatt gcagagtgcg ctgggtctag 3720

ctatgaagct aggcacacgg agtcagtcag ctatcatgct ggccaaagaa gctatttgca 3780
gaggtagtta ctcttactgg attctgggcc aaatagcctt gtttgtgctg gtatatccga 3840
agctaacagt gggcttctca tcctagcggg cgagctaggg caggatgaac gcttcgagcg 3900
agccctttat tatacggcgt ttggcaccga cgataaaaga gaaggggtgt cggcatttct 3960
ggaaaagagg gctccaatct ggggtgtgca gtcgaatgag aaataagatc atatctatct 4020
aacagtacca ccagaatgaa cttcccctag tttcagtcaa tcaaatatct tttcgcgcac 4080
atcttttaggt ccctcagtac gtagtgtgaa atacctctag gtatcttgct ataactgttg 4140
tcctgataaa agtatatagc tgttgtgaca ctgcaggagt gcaagaccat catcatcaaa 4200
tgatctctca aacggttcgc tttatgagaa gacttaagaa taaattatat ttgagaatat 4260
agaaaagtta gaaaataata aaaaaagcaa ataagataaa aaaaaataag ttagagtcac 4320
taaactgtga tgtctcttcg gttgcaccgg gtatgaccta agagagatac caagctagat 4380
agcgatggag cattggccag aagtcaggaa ggcttcttgg taggtctaca gtgaaactat 4440
atgattgaga taagtaggtc caaagcagac tgaggccaac tctggcagga tggtagcgag 4500
ttaggtatct atttttgcgt cagcggccct taactggtag actatagacg aataccggtg 4560
ccatatacat ttgaggatcc agccataact attgcgaagc ttgacattac aaagcgctct 4620
gtgatttgcg ttttggcctt ctcaatagat gtagcagaaa tacaggcagg gccttggtgt 4680
attgtacatt taggtcgcga attatgctga atgggtagtc ttcccacta tagccttttc 4740
attgctttac acatccac 4759

<210> 5845
<211> 11430
<212> DNA
<213> Aspergillus nidulans
<400> 5845

aggggggggg ggagggggta ttaattgtgt gaaaacgaag ggtaaaatat gggaggggagc 60
gtcaggaggg atgttggggg gcaagcaact gagaggcact aataatggaa ataaagagag 120
gtgtacagaa taggaggaag taacctcgac cgatgtaacg acgcagaaat gttgccgacc 180
aataaaagat acaggtggga gttaaagaga gtgggttggg aaaagatcac aatcgcagac 240
gttaagtagt gagactaggg agactcatat agagtataga gacagaggaa tataaagcga 300

gcagagaata	gagaataaga	gcaaaataca	cagttcctcc	cccccgtagc	ggagatcttt	360
ccaaaacggg	cgggcctccc	agggaggggc	gtggatctca	ccccaattcc	tccgaacgga	420
gggcctcagc	gaaaaagagc	caagaagccc	tagcgtgtgg	gcatgtgaac	ggcctatagg	480
gccctggggt	ggcgattacg	ccccgatgtc	cttgcagttt	ggaagagccc	caggaacagt	540
taaagcgttg	ctttctctcc	cggtctatagg	aggctctggc	gtgcccccta	gtgatagtac	600
cagcaggtct	tttgacgata	aaagtcagag	aagcaggtaa	ggcaaagcaa	agtaaatacac	660
ttgagagcta	ggtagtcaat	aatgtcggtc	tgtctgcccc	atcagcccgt	tgatgtctgg	720
gtaaaggcgc	cattctgggt	cgcgagttta	tgcttaacag	gtgaggtatt	caccacggca	780
ccctagtagc	aggttctctgt	tatgggttatt	gtttgggtgt	gcctcttaaa	aaatctatgt	840
tatcctctat	gtgcggcttt	tctgttttcg	cgccgcgaca	gtcagcagtg	gaactcgtgt	900
ttgctacgtg	tcagcatggg	ctgctcatcc	tggtcacgtt	atatgcatga	gatatggatc	960
ttgaaataac	cccaaaagag	gcatgccttg	attatgatcg	ttgaccttgc	cgcgcttcct	1020
gatgccaata	gtgccaagga	cctctcatca	ggagatggta	aagatagtca	tatcgcagcg	1080
tccgggccct	cgaaaattta	cttcggattc	attcaagatt	gacgggtggc	gttatggcat	1140
tcgtgaagct	gtcgtcagcc	gacagagcaa	tgttgcttca	ttcggttgtc	caaagagatt	1200
ttgagaagtt	ttggctcggt	gataagatga	ctggtatatt	tgtataaggg	tcgtacagag	1260
aatatgactg	ggatcggcaa	ataagatatc	ctctgattca	taaactacac	caacctattg	1320
ccgtttcctg	gcaaacatgc	tatttcattt	tccccttcgc	tatgatcttc	cgcgtgctct	1380
tagtgtaggc	ctgctctccc	aggagcgtcg	ggccgggaat	gcacttggtc	ttccacaaga	1440
ttctcacaca	agaacctggt	gtcgtcaagg	ctcagtatta	caatattctt	tgcggcgacg	1500
tattcactat	ctgtgcccc	ctggatgcat	caattggcac	gatgatacaa	atattactac	1560
tacgtgagtt	gtgccgttaa	atagatccat	tatcactagt	ataaaacagc	acataaattc	1620
attgtgtata	tataaaagtt	ggtgtcatgc	gaatgaccat	gtggatgaaa	cccgcaagtc	1680
cctttccgcg	caagataacg	agagttgacg	caataataga	tcttgctcct	agcgctaatac	1740
agccgctaata	caatctttat	cctccccccc	ttgttggtta	cagatacacg	tcccttcac	1800
tcctccacca	accccgcata	atccctcggc	tgatgcggta	cgaacaaatt	tttccaccac	1860
gaccctttcc	ttgccgtcct	caagcctaaa	tctagaagca	acatatccaa	atacggcagg	1920

acttcgaaga caaagtcagc attccgcgcc ccatgggccg ctggcgaacg cagggcacag 1980
 aattccgtgt ggagtgtgt ctcgcggagt agcgactcct tgtcatgaca atcatagtgc 2040
 agctcattgc catggtttag atagactagt acccacaggg cttgtacttc ggtaacgaga 2100
 ggtgtgttaa acgtggtaac ggttcctaag acggtgatgc tgtggtcac ccatagggaa 2160
 gggggcacga tgaagcgggc gagacggaaa gggcgcagaa cggtttcatt gacatctttt 2220
 ttgtcgtgat agctcctggc ctctgggacg gtaccgagca taggcaggcg cgtgtggatg 2280
 tttttacgag tttgctcgat gagctctgga tctagcaggt ctgctgtcca cggtaaagccg 2340
 agctcttgtt caattccatc tggcaagaac cggatgcctg gagatgcttt ccatcctgtg 2400
 cacaggatta ctgccctggt atagagcttg tctcgttgg aaaggactac tgtatgccgc 2460
 tccagccgct caatatcggc gatgtgcact ttgaccaatc cttgccgaat aaggctaaag 2520
 aagttatgcg agaaattcag gattcccaca gcagtcccg cccagatagg tttgatccag 2580
 ggtcgttaact tggctgtctc gacatggta ctgtaccgat tgacccgaag aatatccac 2640
 tccaaggaag cccaaaaaag acgcacaatg atgcgtccta gccactgtcc catgcaggaa 2700
 cctgcgtatt ggactgtca cccatatgca cggactgaac caagacaggg cacgcacgag 2760
 tgggagactc tcaaggagaa ggttcaaggg cgagaaaacg gcggcaggac tcatccacga 2820
 tggaccagtt ccagaggatc taataacca gttgacgcgg tgaccccttg aggacatgc 2880
 gtagacggtg tcccaggcag atttgcttcc accgagcaca gttaatggtg gttggtcac 2940
 acgggtgcct tcataatcct cttcttctc ttcctgtccc atattctgat cttcagtttt 3000
 atcattggtc ttagaaaaaa ggatgttttg gtaaaggga agctccttta catggaatag 3060
 cggcgcacca tatgagtcct ggccggcgaa aataggaata cgtggttgag aggtaagccc 3120
 cgttgcgagt atgagtttcc gcgttcgtat acagccgtct ttggcgtgtc cagttcctgc 3180
 tgcatttatg tacctaacaa cccattcttt tctctctgca tatcccttga tatattccac 3240
 actctctacc ttgcaattca gccagatttt gtcccggatc ccgaagcggc ctgcatatgc 3300
 tttcagatat tcatgcaccg ctcgacctgg tatatgctgt ccagcttcca ccagtcccgg 3360
 catgacatta tcatcatag gaaagtcgct atactcatat gaccccagaa ggttggttagt 3420
 ccttagtcct gcataaaac gctcttccgc ccagacaccg ccgattgacg tggcggaatc 3480
 cagaacgagc aaactcaggt cgggattcag ggcgagtgcg gttttggcgg cggcgaggcc 3540

atgccagcct gttgctcagt gtgagttgtg attagttcac agaccccgta atgacatcta	3600
atttgaagag agtggaatat gttgagaggg taatgtacca gcgccgatta tgaccagatc	3660
aattgttctc ggttccatcg ttattagata caccgcttag gtcgatttag atggcgggtgc	3720
agtttggtctg gacccaattt gttgctcagtt aagccatgat ttagttgggc gcagaaggta	3780
ttcgctaggt attaaggaag aaaggcagaa agccttgacc ctgcgcgccg tcttcatata	3840
agtaccctct gctaagcgcc gtcttctgca atcacttttg catcccatcc ctgtcagtct	3900
ctagtaaagc catcggtgca tacaacatga gggcgctacc aaccagcgtg ccagacgtgt	3960
tccgacggct cagatccctg tccaccaact gtccaatcag cggagtgcac actttgaacc	4020
aagacaatca gtgaggtact tttgactagt ctttaacgcc tcatgaactt tccctggcca	4080
cccttaatgc atttcgcaact ggctgtgtat ggcgggaaac ttgagtata tgcaaaattg	4140
ttagcaggtt tagggcatag tggcaaaact tttggaaatt aatgtaccaa ggtcgaaaat	4200
agagaagcac gcaccattta accggctaatt ttacgttaat cttcatcgat tttattggta	4260
aactgatttt cacctcgtcc attgtaggaa gtacgtaca aagggtcaacg gagcatagca	4320
gagcctttga atgcctataa ttggagacgc ctgggtgagc agaaaggccg atatatgcat	4380
tcatgttacg cagtgttata tggatattct cgatacgcaa tcctcaaagg gtaacatgct	4440
cgcgggaaat ctaggtaagg tgtctgcaga gagggcgggtg cgggtggatg ctcttgtggg	4500
gatattggat tacttgtttc agcgtctgtg tgagtttaaa agataaatcg gttgcaacct	4560
gatacgata tatcatgcga tagctcatct cgagcaccag tgtctgggat gagcttacca	4620
gtcatgtaat ataagcagct attctctgac ccctgagtat ctggcccctc atcaaata	4680
ctgtatggtg agataccaga gaagagatct atcgtcagtg agatagacaa tcaatcgtca	4740
tatggtatcc gattcttagt aggctacgtt cgtgtggtaa tgcagtttcc ttctgccctt	4800
tctcctttga ggcaacacaa cctatgcgca acaatatcgg tgtctgctgc cggcatttcc	4860
ctgtgcatgg atggggagtg tgtcgggtgc gaatgggcag gaggatggga taccatccat	4920
gaacgaacaa ggaacgatct gggttgagag cgccatatat ctttccttgg actgggggtg	4980
acgaacaagg cattgggtgt tggatcagat gccaaaggacg caaaagttaa ggttcgagaa	5040
cctgttcgct gcatgttcca acatgagaaa cgcattttga agggctaagg ccataccact	5100
cagctgcaca gacaaattga acgacttaga acccatccct cctggaccct tgctgttaaa	5160

tgagcaataa	ttcgccacgc	aggtaacgtg	tcgcggttaa	tggagctcgg	ggccacccat	5220
tagcccttgc	gcgcgtaatg	cgtgccctat	tgtctggaca	taataggcag	ccttagcgca	5280
tgggttgaa	acaccacaac	cgacctaaat	tattcgattg	cccgtcggga	gcttcggata	5340
ccgcggcgct	tttccagtac	cacgcaaaa	ctactgactc	gtgttacgta	ggtcactgaa	5400
gttggtgcaa	cgggcccggg	caggaaaggc	tgaccaatag	gtggacgatg	ccttttggcc	5460
tggggaggtc	ttgtgagata	agcttcaata	ctggataact	gctgctgctg	agtaggtatg	5520
atcatggtac	caagttgtca	gtagccgctc	caaaggatgt	cagatactga	aagctacgag	5580
ctgtaccatg	ttgaaaacag	cccgataaat	tgccgaacaa	tgaaggagac	ccgatgggcg	5640
gcttgtaaaa	cagggtttta	tactgctacc	agctacgctt	agcataaatg	aggagggtag	5700
gtagcacctt	aatgtctgct	gtgtaacggg	cgcaggcagt	attatttcaa	ctgactgtcc	5760
tgtataagcg	agtatcataa	gcttagagaa	ggaaatataa	gaaagaagcg	caaatacct	5820
cctcctccct	ttatcaacta	tttctagtta	tatatcaaga	cttttagtcc	tgtatgctga	5880
cagatctctt	taccaacgct	acacgctgta	attccatggt	tgtacactaa	tattgcagaa	5940
actttgttta	gatctataga	attattcctt	gttaagggca	tggctaataa	ccacgatcca	6000
ggctatagcc	tgtgataatt	acctccctcc	tcctcaaagg	tagaaagcct	gtggtcacaa	6060
ggctagtaat	agtaccatca	atagtattta	tagttctgag	gtctggaaat	attataataa	6120
gccacgtggt	tcttaagctt	ctatcttatg	ttgtgaatgc	tcacagggga	aggagcagaa	6180
ggaaactgta	tcaactacaa	gaacgtagcc	tacttaggat	tggatgccat	atgacgattg	6240
attgtctagt	agactggctt	gatgcctaca	agctagaact	tcacccaag	ccaggcaacc	6300
ccaccctggg	accaataccc	tagaccttgt	ctttagacct	tgtcttctct	aacctactac	6360
taagggccct	agtggaagac	catttaaaga	ctccaagtag	ccatgcaata	attagaataa	6420
tactggagtg	agaagagccc	tcccctgtat	ataagcttag	ctctaccaac	taggagaaag	6480
ccagaaccct	ggcaagcctg	cctgaccaa	atctactaat	taacctacta	gctgaacaac	6540
tggttcagat	atccgagcta	gtaattcaag	gtatatcaag	atattatact	tgtagactcc	6600
ccatgtcaca	ggctatggcc	tggatcttga	tagtcggcca	tgccctcaac	atggttctaa	6660
ataaggtttc	tgcaacatca	gtgtacagcc	tcggaattgc	ggcctcgtag	gaaaagagat	6720
ccgtcctcgt	agcttcggga	aggagatccg	ccggcatgca	agtccaggaa	gtcggaaatc	6780

ttgacgtatg attgagaaag gttgataaag ggaggaggaa gatatctgcg cctctatctt 6840
 ttgttacttt ctctaagctt gtgatactcg tgaatacagg ccagccagtt gaaaacaata 6900
 ctgcctacgc ccgttacacc ctaggaccct atagtagact ccagaataga cttgttaaac 6960
 ccaaccacag aaaccgccc caaccgccc cgaccgcca agaaatgggt ttgggttagac 7020
 ctactaatta tccattgggt tttggatatt tttggctgcc ccaaagcccg gcggagcaat 7080
 ccgctgggtt gccagatat ctgaataggt atattactgt atttagatta tattttctta 7140
 cttagatggt ttataatata gtacggaggt gtgcaccaa agtcatcgcc gcgctagtaa 7200
 tttatgatgc caaatcctgt aattccatta ccagtcgcaa gctgataggt tgatgatata 7260
 tcgatcttct aagcaaacat caacataacc tcttctcatt tttgaagcta tccagatcgc 7320
 aaattgacag atcaaacag tttttatggt gttttgaagc gctttttctg ctatttttgc 7380
 ctccctgcct ccaattctgc ctccgaactg tacacgcctt ccttcctgcg atccttacia 7440
 tgccagcgcc tcatccaaat gagcttcgag ttcaagtcct ctcttactgg gccttaggga 7500
 ttcagccacc cgatatagcc aagatgcttc agatcaacgt ccgtacgata tgggatatga 7560
 tccagaaggg ccaagatcgt ggctacaatc ctgctcagtc catgaggggt aagcttgaat 7620
 atgtggaaga tggcaagcgc tctggccgtc cgaaggagat ttctgaagct acagatatgg 7680
 cagttcttgc atctgtcaag caggatagga atggacgtga gaaatcttct gaaatccttg 7740
 cctttgaagc aggtatatct cattcttctg ttttaciaat cctccacaag catggcttta 7800
 caattgttaa accttcttgg aaacctggtc taactgaagc tgcaaaggct actcgtctta 7860
 ggttctgctt ggatcaccaa cactggactc tggaggactg gaaggctgtt atatttaccg 7920
 atgagacttc tgttatcctt ggccaccgtc gaggtccgt acgagtttgg aggactgcta 7980
 gagatgctca tgatccaaca tgtatctgaa ggcgctggaa gggatcatct gacttcttgg 8040
 tttggggatg ctttacatat gataaaaagg gacctctgca tatctttgaa ccagagactg 8100
 cttaccaaca caagaagtca gaggtagaga tagcagctct aaatgcagag ctggagccta 8160
 ttctcagga ggaatgggag atagagacga ggctaaagcg tctgcatctt cgtgggggtcc 8220
 ctgggcgtgt tctacatgg agatttactg agaaaactgg gaagcttcta cgaaagagca 8280
 aaggaggagt tgactggtgg agataccagc aggtattctc taatagcttt attctcctat 8340
 attgggctaa ccagcttttc tcaataggaa atccttcttc cacatcttat tccttttgc 8400

aaggcctgca aaatcgaacg tccagataca aaggtattag aggatggggc ccctgctcat 8460
aaacaccatg ctcagcgccg catttacagc atccatgaaa ttgagaagat ctttgactgg 8520
cctggcaatt cgctgatct taatgcaatt gagccatgct ggatgtggat gaagaagcgt 8580
acaacttcac gtggagcacc tagggacaaa aagactggaa agacagcttg gataaaggca 8640
tggaatgagc tccctcagga gaagatacag ggctggattg agaggcttat aaggcatatc 8700
caggaggtta tacaacatga tgggggtaat gagtacaagg agggccgtac agatcatgat 8760
gctcgaagct ggaagggcag gcggatcaaa ggtcagcttt ctgcgcgtca agatctatct 8820
ccagatcctt gagaggacct ctgaatagct tcatatctgc tagctttgac attttatgtg 8880
attctccttc tctaataatca ccacagctgt atgccgaaca ttggttgcta tggatatttc 8940
ttacaagaag ccggtacagt ggcagtacta gcgtcaatac tagcgcggcg aagacttttg 9000
gtgcacacct ccgtatataa atacagtatt ttattagcaa tgtatatcac tgcttattaa 9060
agtaatgata tgcgtaacta gggtattttg gggtatttgg gttgggtag aattatttgc 9120
taaaccatg ggcggttttc tgttcaggca acccaccaca aaaaccgcgt gggcagatca 9180
gctaggcctg aaaaccgcc ccaaccctg gtttaacaag tctaggcctt cttttcttaa 9240
taaagaaaat agagatacag cacttctcta ggaagtggta gtaatatctc cctatactta 9300
ctctacctat gtaatgagac gtatttggat ggatcttcct atctagacgt gccgtacgta 9360
caagaaggaa tcgctggaaa gaagaaagaa aaaaagggat tgctgtcatg aggaagtctt 9420
aagaggtggc tcaccgcctt taagacaacg ttggccgcct tggccgagtc actaaggctt 9480
aaggtcccct tgtatgggca agaaccata tgtagtgcgg gtgcggataa tcgacacata 9540
accgcatga agaataaac cttagtggc ttagtggatt atataatacg gccaaactaa 9600
gtatagtgtt aaggaatgcg gattaagtgg tgcggattct tctaaatctt gtggattttg 9660
gtgtgggccg aattgtatga caaagaacct gcaaaccgc gcggattgct ttttgaccct 9720
gcggattgta accaaccgc cccgaggaga ccacatgtga cgtggtaa at gtcgcgagct 9780
aactctaagt cggctattcc tcttttgagc gcactaaccc aaaggagtaa ggtcgactta 9840
gagttagcta aaatataata ctacttgtca gtaatggact tttctcctt tatttacctc 9900
aacttcaatc tgccaataag aaatagtctc agactagtca ctgactagtt tgcaacttgc 9960
tgctactatg tctacaactc tgcaaattcc aggtactatt gacattccag aacagggtaca 10020

agacttcatt tttcttacct agtttgtgac tagttgctaa ctggcagcag attgacagag 10080
 ttattcttag caatcatcca acacatcctc taatcacatc taaacttgaa tactgctata 10140
 tgttacctta ctatcctgaa tctcatcaga atggctatac ctatattgtc ctacttgatc 10200
 cgaaccgggt aaggagcagg gaagataagg gaagacttat taaaaatggt tgttctataa 10260
 ctaataaggg actagttgct gactagtcac agacttaata ccatgctcgc cagttggagt 10320
 gttatgatgc tcaatcacc c tatattcaag gcagggttac tcaaataag taccagtatt 10380
 caggcgtttg aatatactct tatctccatc ttaaccttag aaatatatac cattacaagg 10440
 ttacagaaga tgactggaac tataatctgac aggagcaaca acttattgaa gagacagaaa 10500
 tagatcctaa aaaacagaaa gcaatctcgt gagtaactag tctttatttg attagagact 10560
 aatcaaggac taatcatatt tatatagaca tttctttggt atgctttgtg tatttaagag 10620
 atatcaagct tgtcggccgc aacaagtagg gtgtgctcct aagatggtac ttggcgaagc 10680
 tgtaagtacc ttagggtaga ctagtctggg tctagttact aactagtcag cttcaaatag 10740
 gccatgcttt atcctatata tgttgctcta atttaacacc agaaacctat aaacaatatt 10800
 tttttgattc tcttgcatth catacagata cagatatect atatctagct caattattcg 10860
 agcagagagg aattattgaa ccaaaatact gtgcaatgat tgatacaagc tggttaaaga 10920
 gaatgtactg taactgcagt gagttatata gctagtcttg ggctagtctt ggactaattg 10980
 ctaactaatt cttgctaagg ctttctgcat ggtgatgata tattactaat agagtcacaa 11040
 ctttgactg tgatctttta tgttatgatt ctattagacc tggaggcctt tccctattat 11100
 ctttttatat caacaggaat atatactcat cctctacctc ctccagccaa gatccctggc 11160
 gaaattgcag atgaaatctc ttatattatt cgtgacatgc agaatcctga tcttcgaatt 11220
 agttagtact gctattaaac taatcccttt ctaatctata attagttgct aactagacta 11280
 ggccaactta tccacagtcc tcaaatacag gacttactcg cgcgatataa taaggactta 11340
 attataggcc tttatctg cctagcaa atagattaaa tataggctct tatttaccag 11400
 gagaagcttg tattttatcc tgatagccaa 11430

<210> 5846
 <211> 4619
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5846

gcctgaacct ggttgaagat ccatgtccgg acgatcgtac ctttctgttt cccattcgcct 60
tgtagacca tcgaagacga caacctggtc tgcttttgag gcgacttcga cagctttgga 120
aatgagctct tcctgctctt ggcgccgggc agcgccgaag cggaagcctg caggccccgaa 180
gatgaccacc ccgcgggtgt cgatgtccga ggtgggtgct gtcccgaact ggaaggtaat 240
tttgtatttc tggccagcca tgagttcctt ggagcccttt tcttcaacgg tgccgtttcc 300
aaagaaggca gagccgagac gctggttctt ggtgttatca acgacgactt catcatccac 360
gaggagtttc cccgttccga cgacaacaac gccgaagtcg tagacaccgg actcttcggg 420
agtgaaatag ccctccatgt tcacctagta aaggtaagac ttgatcttag ggtggcgata 480
gtccatgagg aagccctggg atgagacaag gtgtagctcg tggaggagtt cgcggttgct 540
actggatgcg ggctcgtcgt aaacgcggaa cttgaagccc gttttgccgt cgtcgggtctt 600
caggaggtgg ccgatcaacg gaaggctcct gtatgagtat gaaccttggg cgaagtgaac 660
ctcacccttg ctctgtgctg atacgccttc gaaggggtgtg attgtgtagt acgcatccaa 720
ggatgcagag ccacctccac agtaagcggc gatcttggcg tttggtccga tcacggcgat 780
ggacttctcc ttgttgaaag gtaggatgtt atcctcgttc ttcaagagca cgatagactc 840
ggccgcagcc cgtcggagta gggcttggtc ttcggggcgg ttaagaacct tttcctctgc 900
gttttcgggg ataccagtg gctcaacgta atttacaagg ttcagaacgt tgcgtacacg 960
ttcatccagg acaaactcgt ggactttggt ggatgatacg gcgtgtgcca gggcgtctcc 1020
ccgccagcgt gtcttacctg gcattcttat gtcgagaccg gcaattattg attctgacgt 1080
actgtatgtc ccaaacctgc aacagcttag acatgattcc ggtaggactg attcaagaac 1140
ctaccagtca ctcataacta gtccgtccca tccccactcc ttgcgcaaaa tgtctgtgat 1200
gtacttctta ttctcactca catgggtacc gttaatcttg ttataagccg tcataactgt 1260
ggccgttttg caaatcctca tcgcaatctg gaacggcaag aggtatatct cgcgtgtagc 1320
ccggtcggta acaatcgaat cgaccgcaa acgctcatgc tcctggtcatt tgcacacaaa 1380
gtgcttcagg cacgcggcaa cgcccttttc ctggattccc ttggaacagt agccagccaa 1440
gtggccggca agaacaccat cttcggcgaa agactcgaac cctcggccgc ccagcggcga 1500
tcgttgcgta ttgattgtgg gacccaatat gacgtgcgcg cccttggcaa tggcctcttc 1560

ccccatcaaa tgcctacct tgtgcagtaa ttcagtgtcc caggttgctc ccagggcagt 1620
agcgcagggg aaacatgctg ctggcacacc gttaaaaaac cgcgttccgc ggactccatt 1680
ggggccatcg gacatgcgca ggctgggaat gttaagcctg gggacagatg cagtatgcca 1740
gaagtcgatc cctatagaag ctgtgagccc ttatttgcaa caccagcct aggcttgctg 1800
aaagattacc tgacacaaga tcgatcttct ctccgagacg aagttcttca atcgtcttgt 1860
ccacatccaa ttgaggcatt gtgagagatg tatatgagcc gagataaatt cttccgtttt 1920
acaggagggc gaaaggaaac tatctgcgct ggtaatcaca gcactagcaa accaggtcag 1980
aaattgacaa gcataaaatg acaagaaaag agcaaggaat gccaggaagc cacggggaga 2040
aagactagag atatacgtac taatcccaac ccagttctc cattgcaccg tctttccgga 2100
ctaacgcacg gatagctgat cagtttcgca taagttgatg ctccacacaa gaatagcgat 2160
cagtgaccac tgaggacgct ccatgatcag tgctggctga attgcctgaa tgagagtaga 2220
tgcaattggc ggagctggaa cacaattggc atcaaaccgg tggggaggag agcaagcatt 2280
gacaagaaag gtgctgaaaa gagaacggga cttctgccga agattgaccg gttgcttggc 2340
cacagcctag gtaatcggcg actcggcccg acctccgtga ttcttatgat gttgattgta 2400
caaagatggg aaagacaggc cgtcagccag tcagccttac taggtggact aagtgggtca 2460
caatccaagg gcaatggcgg tggagcatcg aacaatgact cgtgttcaat gcatcaagca 2520
gatcaagcag ttctagtagt actacctgga ccaacgtcta atatcacacg cgctgaccac 2580
aggcatagaa aaagtgtca agagagggat gggtttcaaa gacaagagaa tacatgttgc 2640
ttggccattg caatgagaaa gacaaaacag caatagagcg gaatgcttaa caccgtcaga 2700
aatgctcata tgatatcata tcaccaagtg aaccagacat aagaaaatca agtaggaaag 2760
tacaagagaa agtgtatctc tgaagacagc aatcaagccc ctctcgagc acgcttgctc 2820
tcgctgccag cgccccgtcc acctcggctg cttccatcac tgtgtccgcc ttcaccccc 2880
ggccgtccgc gcttgcggtg aggtccgctc ccaactgccg tctcgcgct atagttgcgc 2940
tcgcggttcc ggtcgcggtt cgggtcgca tcgcggtctc gaggtccccg tccgctgctg 3000
ctccaacgct gttcttcac cggcccaccg ggaggagggg gtggtggagg agggggaggg 3060
ggttgctccg cgtgggacga gggaggccgg agacgtcctt catgctcttg tgaggattct 3120
ggaccggcgt cgcgatcgcg gcgccttcga ttgtcttcac gcggtccaac accccgacgg 3180

gacgcttcac gaggttcgta acgttcgtct cgaggtgctc ctgaaggcac atcactcctg 3240
cggctccgct ctcggttgcg atctcgteca tcttcccgcc ggctgtact ccgatgatccg 3300
tcttcatcac cagcacgacg atcccggtcc cgctcagctt ctcggtctcg gtcgtgagaa 3360
aagctgccgc cagtcaaata gcgctgtgat cggcggccat cggagttggt gtcatcagtg 3420
ggttcgtgac ggccgctgcc acccggccga cttctggagt gtgcatctcc ctcaggatac 3480
ccggacggcc tcccagcaaa tagatcggtt ttgctctctg ttgaaacccc ggggcggggg 3540
ccttcttctg ggcccagtg ctgcggtcta gttgcttgcg gtgattgcac tcgaggggtg 3600
gctggctgtc gattagtacc gcgaccccca ctggttgac cgggaccgcg gtctgaaggc 3660
gaccagact gctgaagcat gttgttgaga ttggcaaacc gtttgcgcc gcgtccgcgg 3720
ttcaccaccg aaacctggcc cacctggagg tccacgagtc acaggcgaag atcctgagcc 3780
tgcaccaagt ccaccacgag gccctaaaag aggaattatg gaaggaggcc ccgaaaggcc 3840
ggagcggggg ctagaccgt gcgcgttgct cgaagttgt cctttagagg ccttgagccg 3900
atcaggtggt attccacttg cctctagcct ctccgccgta ggggataaag tgtctgcagg 3960
aggatcatca ttccgcattc cctggcgctc agggcctgtg ggcgaggac ggtcatttac 4020
cgccggtcca ctaccaggag gccctgccga aggatgtggc gcgggagggt ttcgcccacc 4080
tcggccaggc gcagtcctgc ttcttggtcc agagggtata tcagacatta gatcagcctg 4140
tcgagatcgt ccgacaggaa gatcagatcc aggaactgaa tcccgggggt caggaccttc 4200
cataggggtt cgtggtggcc ggtcgctgcg aggtcctcgt ggcatttctt caccgcgggg 4260
aggcggctgc gtattacttg cgggtttgcg aatatcagat ggaaagcgtt cggggcgatt 4320
cgggaggtcc aattttggag gggtcagagg tcgggtcggc agagacctcc gatcttctct 4380
ttctggcgt aatggttcgc cagcagata gccatgcct ggtctatctg aaacatcgtg 4440
tatgaggtct gcacggtcgg ggtgtgtttg cggaccagat cgttgccag agaggttctc 4500
acgagaatct gcaggacggg ggcggccagg ccggtcacgg tattgtgtcc cacggaatgg 4560
ctcctctaca ggcggtctga aagagagatc ctttagtag ggttaattgc ggcccgaat 4619

<210> 5847
<211> 10010
<212> DNA
<213> *Aspergillus nidulans*

<400> 5847

gtttgtaaga tattgggccc acggttaacaa caggggtgagg cccaaagacg tggaattgta 60
tggggaggat ctcataggtc attcatacaa ccaagcatcg ttaatgatac taaagggaaa 120
aggtcataag acatcaatat cagactcaaa gcgcagcaaa agcaagctca tatgcaaadc 180
cgagcgtgac ttagcatgtt ccagcatgtg atcgaagctc aaatagctga tcttgctgctc 240
agtgggtgtg atagtcttgc tactgttttc catcgtggat tccgtcgcga tggcagacgg 300
gtatccgtac ttgcttgctg aggtgtgggc agagcaggcg tatccacact tgggtctcaac 360
aaaggggatg gcgcaatact ggtaaccggg attagtcaaa tattcaacag tcgaaaagaa 420
gtgtacttac ggtgacgatg gtattcttaa ggaaagatgt gagtgcgggg tcaacaaagt 480
cagtcatgac tccaatagac tctttctgac cagcatgttt gggtccttga acataaccag 540
tcatatcctg ctggagcatg gctttgacat ccgcctgggt cttcttgtag ttggagaaaa 600
tggcctgcga gccgagcatt ccacctctt ccgcagagta ccaatggaac tcgatttgtg 660
ttggcgattg gccgtgtgca acgatatcag atttcagcaa gccacgcaga gcctccagaa 720
tggtgacggt ccactacca tgcgtcgtcg cgctggagc gcctagaaaa gacggaagga 780
ataggttgat gctgtcttgg tgagcacca ggacaacagt cttttctgac agaccaggga 840
tacgtgcgat gatactgaac tgaccccaag aatgatcgaa tttctgaacc gtcgccccga 900
atttgctggc tcccagctcg cggaccacct tggacacctg atcatatagc cactgagcag 960
attccacgcc ggacgacgat ttgtagtata tcgtgtggaa ggacgtaaag ttctccaggt 1020
ccttacgcat attgtccatc gataaccccg cgatgagccc cttaacggtg tcaacatata 1080
ccatcttttg cggataattg acgtagctgc cagcgtctaa tgttggaat agtccgtagt 1140
tacgatcctc cgtaatatcg atgaaattca cccgctcta gccagcgggt agcagccgaa 1200
agagcgggga actccagtgc gccatacgag ttccagagcc catttctcct cctccgttac 1260
ccatctcgtc tggatatggtg acaactcaat gagatacttc tcttgctgct cgtagttagt 1320
ttctgggagc tccagcacct cttgctctag ctgtggaatc gcgtacgacc aggcaccagt 1380
ggcggtcgcg ccgagaacga gcgccgtcga gagcttcata gtgaacaaga cctagccgat 1440
cgctcgttag gaatagcaat aataataatg aatcctaaga atatgacaat tgaggacgga 1500
atttctagaa tctatgcgga gggagaaggg cggacgttga tctgatagct gcgaataact 1560

gaggggtgggg tgtgcggcag agaagtcgca ggtcgaggaa ggaggtcaca ggtaggtcac 1620
cgtaaccgat ggaccaaga caggcgactg cactagatgg taagctatcg taaaaatgat 1680
atttatccaa ttctgaggtc gaccaagttc gtaatttcga cagaagcgct tcgcggtcgt 1740
cgtaacgtca gacctgcccc ggtgctttat ataagctgcc caatggcgtc aggtacggta 1800
gttctccacc aggcacaagc tgtgcctcaa agaccctgc tccaacatag cctcacctcc 1860
acttacgggt agcattttct caggatatcc tccatacccc ttattgtcgc ttctggggac 1920
aaaagggaaa agtcagactc agtgtgatgc tatttttagg tggtgacgaa gttactcttg 1980
atctttaaga aaacagcaaa actcagctct gaacccccgc aggcccgcac attgccgcgg 2040
atccgcagat tcgaaatcca gatccaactc ttgtcatttg gagacgcccc actgagtcgc 2100
gattcaaata ataggttaat tactacgagg agcacaagcg gccgtcaatt cttctgtcgt 2160
ctgtgatagc tccgacaaga ggcaatctca ctagcatcag aatgggctct ggcgcaaaac 2220
tccggtcatc agggagacag cccatttttag cgggtcccaag cgcataccta ggcttagtta 2280
ccactgggtc caactctggg cttcattcat gcaattagta gcctatagcg cccaagattg 2340
atacatctcg tcgaagcaga tggcacacga aacaaagccc ggttacaggc aaagcctatg 2400
taacctaata agttcattct acttaggcag gacggccact tcattctcttg acacacagca 2460
gactgccgag tccttctgta taatatgtga ttttattagg attttattag tgtaagttaa 2520
ggaagcttac ggatgcgtgt gtcgtaaaca gacatagttc attgagacag tcgtagcgtc 2580
ttggttggct cactggctag ctcagagtcg aaccagtcgc aaattggatc ggccgatgcg 2640
atcttaaaag atgacaccat acataaagca ttagcaggtc atgaatcaac agttcataat 2700
atatgcttct attgggatat actttgattc tgaaccaga tctagcgcg tcgatacctgg 2760
catatatctt gtaccaaca atcagcgggg ctgactcaac ctccgcatag ccagcagctt 2820
ccagcaccgt cttctgattc tcatttgtaa tcgcattacc atcgtcctcc ttaccttctt 2880
tagtatcctg gaggttggat aatcatccac ctcccttcc tttctctgat atttccttct 2940
cttaccctcg ttttgcgcaa atatgtcgcc tatatccgtc ggccgaggca gcggcgcttc 3000
cgagtctttc actcaactag ctgatgcaga tctcgaatcc ataggccgcc actgcgaata 3060
ctcgtactgc aaccagctcg acttccttcc ctttagatgt atgtcctgtc gagggacggt 3120
ctgtctggat cacaggactg agactgcaca tcgctgcccc aacgaaggcg aatgggcgcg 3180

ccgtcgagac ggttccgcat ccgcaaccag cagcccgacg cagaaaccta ctatttacia 3240
 ctctgatcag tgcgcgcatg tctcgtgcaa gactttaata aatacgtca aggatcccg 3300
 tgttaaattgt ccggaatgca agcgcgaata ctgcttaaga cacaggttga aagaagagca 3360
 tgactgcgcc aagattgccc cgcgatcagg caccggcggg gccgccactc caaacgaaac 3420
 ggtccgctca atgtttgcaa aggtccgatt gtgggggaag gataagagtc aggcagcagc 3480
 agctgccgcc gctgcggcga gacccaaacc aaaggcgaat agtcctgctg cacgaatggt 3540
 cgcggtaaat gctatgaaga aagcggccaa gggcgacgcg agcgtccctg ctgataagcg 3600
 gatatatctg catgttggtg ggacctcaga aacgcaaggg acagatccgc cgaatggcga 3660
 tttttggttt gattctcggg ggaaagtggg tagaatcttg gacgatgccg cgagacgatt 3720
 aggcgttgaa aatctgaata accgagttgg agaggaggcg cggttacgga tctttcatgt 3780
 ggagagcggg gatttcctag agttctccga tactcttgga ggtgggaaag tcaagacggg 3840
 cgatacgatc gtgatgctga ggggagccgg ggtgattctt gggaaagtga attgatcttt 3900
 ggcccatttt atgataacga cgatatgttc cgatattgca tagcatgata cacattatgt 3960
 tggcgttcgg gaatctgaca ctgatatttg aagcacgaaa tcttcatgat cgtaccacca 4020
 aagtcgtcta gccctagaaa gtacgagacc agcggcgacc tagttcctgc gaaataggaa 4080
 agagatctga aggacttacc gtcaattaca cacctgagtt gcttttccca acttgaatct 4140
 gctgtcctgg ttctttgtat atcgcatcca gctctgttgc gccatttatg tcggaagctg 4200
 taggggatgc aagatcgctt agatctctag gcaaggcgag gatgccgatt ccgcagacct 4260
 ctcgcgaaaga ccataaggat aataatcatt gatatgcgca ttaattgatg aatatctgca 4320
 tattaagcag acctcgatgg ctgcgtacca tgcgggagct gttggccctg ctactgaggc 4380
 atcgtggtca taacgtagga ttcggccttt ttgtacatgc ccacgtcagg tcagtgggaa 4440
 ggttgaaaag cagccaacgc tatactgatt cgaaaccagt attgtacat gttttcgact 4500
 cctaacgcag ttctgggagt gctgcgtctc tattcgggct tatttcgacg catattcccg 4560
 acaagagcaa acaccagaca aagaaatgct tatagcatgc atgatatact gcagcttgcg 4620
 atgtaaacia gaccatgcta tatgcaggag caaggctggg gggccctcat ttgactctt 4680
 tgtggtttcc tgtacctggc ttggtatgcc tgtagattcc caggccccctt tacggagtga 4740
 tttatcctga cttcatcccc acattccccg tgttgcacag ccaaggcaga gattccccctt 4800

acatcaatga	tcgagactta	tgttgaaaaa	gaaggcgttt	agcataatac	ggcccttttc	4860
tggacaaaaa	cggcgttgaa	acaccagac	gctgcttggt	tttctctttc	cgttgcgtct	4920
gcttcgcgac	ttagggcaat	gcatttcagt	ataacacggt	ctcagcggct	tggagcagcc	4980
attggaatct	cggtgcctt	ctttctcaca	gagatctcag	gtaggcagac	gcgatatcgc	5040
gacttggtg	gtttcctgac	atgggatttc	gctaagcctg	caacagttgg	gttttacaca	5100
cactctttgg	ccttggtggc	ggatgccttc	cactacgtac	gtgagcgtca	gacaatgtat	5160
ggcattgcta	attagactag	ctaaatgata	ttgttgggtt	cattgttgca	tttgtcgtct	5220
tcaaggcccg	ttacctcggt	gacgcgggtca	attatgcgcc	agcgatgcta	accatgatac	5280
tcaggtttcg	aactccgagc	attcacctaa	ggagctctcg	tttgatggc	aacgagctca	5340
aatcctgggc	gcattcttca	atggaagtct	gttatttgcg	ctgggtatta	gtatcttctt	5400
gcaatcaatt	gagcgcttta	tcacgttgca	ccgtatgtta	gccgaatccg	gcgtgtccct	5460
tggcttacat	gcattagatg	tcgagaacct	caaacttatg	tttattattg	ggtccattgg	5520
actggggctg	aatatcattt	gtgccacatt	cctacatggt	aacttacctt	gcctgccaat	5580
ccggagacac	aaacttgacc	ggctctagaa	caccatcatc	atcacgacga	ccaccgtcac	5640
ccagattcgg	aggccgagcc	tcaagggcaa	ggtgattttg	aacagcaacg	tgagcttgaa	5700
aataaagcca	aggttcgagc	tcacttatat	gttcttgccc	cggtccattg	acatcccgtg	5760
cagcaccatg	atcacaggca	cacggagcac	gaagaacttc	ccatctttgg	cggtcatgat	5820
ttgggcatga	tgggcgtttt	gcttcacgtt	gccggcgatg	cggccaataa	cctgggtgtg	5880
atggttgctg	cactagtcac	ttggctgacg	cgttatgagg	cgaggtatta	tgctgatcct	5940
gccacaagca	tgggtattgc	tgcaatgata	ttcctttctg	cacttcccct	cagtaagtca	6000
cagccttgtc	tatcagctga	ttctaaaact	gacagtccta	gtccggcaat	ccggtctcat	6060
attactcgag	agtgtcccaa	acaaactcga	tcctgcagat	gtgaagcatg	accttgaaaa	6120
ggtaggattc	ctcaattcat	gctgcatggc	tgtgacctta	tgctttgata	gattcctggc	6180
gtcctatccg	tccatgagct	gcatactctg	cgtctgaacc	aacataagac	tcttgcatca	6240
gttcatgtcg	ctatgctgga	tcactcgatt	tccgaattct	ctgaagtatc	acgtacattg	6300
caggagtgtt	tccatgcctg	gggggtgcat	tcagttgcca	ttatgccgga	aatcgcaact	6360
cccttgctcg	ctagggccct	gacccaaaat	caaagtgaca	taagtgggat	ggaggtgtca	6420

gagaagtacc	taaatctttg	ccagtcccaa	tgtagttcgt	tctgcagaga	attggcttgt	6480
tgcggttagg	tgcgagagg	gattctagag	cagcaaagat	gggcttgtcg	tttgccgtca	6540
atcaatccag	cccttttctt	ccctcttta	cccttctctt	atatctccaa	ttaatttgac	6600
cttggctcaa	cccaccgtca	aatcctcgaa	ccagggcact	acccttgcg	aatgattccg	6660
aggatcggct	gttcctgttc	atgtacaata	tcgactccgt	gcaacaataa	tcgatcacia	6720
attccgcgat	ggaaattctc	ccaactccaa	ctaagctgat	ctattatctg	cagagaagcc	6780
gctgggcttg	aaaaattaca	caaatatgcc	atataaggaa	ggtagacgcg	catttctagt	6840
actgcggatt	tactccaagt	ctccaaactg	ataagcaacc	ccactgcact	gctggcctcg	6900
tagtatctat	aagcagctgg	gctgttggtc	atcaaccgcc	aaatgcgggg	tatatatacg	6960
gttgctcac	tagacaccgg	gtcttgcttg	ctacatcgca	ccttcccaca	aggctagaag	7020
tggtgtgaca	ccgtgcagca	gagaggggaag	aagatataaa	aagccttacc	accactcttt	7080
ggttgatcta	tctctttctt	cgagtgtctc	tcgcaaactc	tccatattct	acactcgatc	7140
ttgaattatg	tcttccacct	gggaagccca	agctcgcaaa	gctcagtata	tccttgagca	7200
gtccatccca	aagcaatggc	tggtacctgc	agaccgactc	cctcctgcag	accagctgaa	7260
tgtgatggac	ttcccgcgca	aaagtgggat	gcttactgat	aagggaactcg	ccataacgga	7320
gttgtctgcc	acggctcttg	tatccgccat	gggtgagggc	cgtttcagcg	ctgaagaagt	7380
ggctgtggct	tttctgaaga	gatccgttat	tgggcatcag	ctggtagcag	aagaaattgg	7440
caataactga	accgggctaa	ctgctattag	ctcaacttcg	ctactgaatt	tatggccgag	7500
aaagccatct	tgagggccag	ggaactagat	aagtactata	aagagacagg	tcagctagt	7560
ggaccattgg	tatgctagat	accctattga	gcttacagtc	ttggactgag	tgctgcagca	7620
tggtgttccc	atcagcgtca	aagaacatat	aggattcaga	ggcctgacgc	tgaacgcagg	7680
ctacactaca	tggtacgtca	attccctcgc	ttttctgtta	gctaatagct	aaggtacacg	7740
aagggtcgac	aacatcgca	cagacgacgc	gcttatcctg	gaatgcttgg	aggaggcagg	7800
tgagttttc	catgtccgga	cgaatcagcc	tcaatctctc	atggtaatgc	tctttacggc	7860
ctaaattgca	gcaattactg	actggacaag	cacctctgct	gcagtaacaa	tctcaccggt	7920
accactttga	atccttacia	ccgcactctt	agtccgggtg	gttcctcggg	cggcgagggg	7980
gcgtctatgg	gattcaagt	cgctccgtta	ggcatcgga	cagacattgg	tggtcaata	8040

agatgcccag	cggcgttttg	taacgcgtat	ggctttcgtc	cgacaatcca	tcgaaaccca	8100
cttaaagggt	cgaaagtgcc	tgtgccgggc	caagaatcta	tcctaggcgt	aatcggccca	8160
cttgccctgtc	agtgcgtcga	agactagagc	tgtttcaaag	ggcactcctt	gatcaagagc	8220
cttgggatga	ggagacctca	ttggtgccgt	tgccttgga	gcatgtttct	tcaacggaaa	8280
atattacagt	gggcatcatg	tgggatgatg	ggtacgttca	tcccatgttt	tgatcataat	8340
ttgcaatctg	atggagctag	atgtgttcgt	cctcatcccc	cagtgactcg	ggccctgtcg	8400
cacgctcgag	agcggctccg	agccttgggt	atcaacgtgg	ttgactggga	gccctacaac	8460
catgaccatg	gttggaataa	cattgtatgt	gaaccacctc	catatacgag	gcggccgtga	8520
aatacaacga	aacaacgcta	actgaagaaa	gtcctctctc	tattttgccg	atgcagcagc	8580
ccgcaatcgt	gaactcattg	cagagtcggg	cgagccaacg	cttcctctca	ccgagtgggc	8640
cttcagtat	agccgggtcaa	cgccactaac	agtggccgaa	aattgggagc	tcaactgcca	8700
gcgcgacatt	taccgggacg	actatcatgc	acttatgaaa	tctcacggtg	tagacttcat	8760
tctctgccct	gcatatgttg	gtgtcgcaag	cgctctaggc	gaatcccaat	actggaacta	8820
tacggctatc	tggaatatcc	tggaccagcc	tgctgcagtt	tttcccagcg	ggttatacgt	8880
ggatccgcaa	ctcgaccggg	tagacaactc	ctatcaacca	cgaagcgcag	aagatgagcg	8940
tgaatggaag	aaatattctc	ctgaaagata	tgttggggct	ccgattgggc	tgcaactagt	9000
tgggaggcat	ttcaaggatg	aagagacttt	ggcagctgca	agcttagtct	caaaagcact	9060
aaagaacact	acaaacgtat	agctcctaac	tatattaatg	ggcgttttga	aatagacact	9120
tgagcagttg	agcgttaatt	ttaatcgata	catcatgaga	ctattcccaa	acaagcaacc	9180
gaaggctctc	caacattatg	tcagccaagg	agtctccgat	gatgtttctg	attctcccg	9240
caaaggcacc	aaactctccc	ctcgtcta	ccttgttgca	atgcgcagaa	atgctggtcg	9300
agctcctaga	tgttttcaag	gctctggaat	taaccaccgc	gctccgtcct	ttgctgttac	9360
ccgatgagac	tttactcttt	gtccaggatg	cggtgaggtt	atacgatggg	tgagtattga	9420
acaaatacaa	actgtgctca	tctggatttc	tcaaggctca	tccaaagtac	acttgcta	9480
tttaaccctc	tttaattaac	agcaaataca	agatcgccaa	ctaccaggac	ggccatgcgt	9540
atctcacgtc	acaccgggtc	tgttacgtag	ccgttgacga	gccgcggaag	tactcagtcg	9600
gcatcgacct	aaaagacgtc	gacagagccg	aatatcaagt	aatatgattc	ctgcactgcc	9660

ttgcagctca ttgctcatgt ataccaggca ggcttctgga aatcatcgcc gaaaatcatc 9720
 atatacccaa agcctgtgaa gaacgcaggc ggacctcgga gctcgagcgc gagtccatcg 9780
 cggctaccgt tgagagcaca attatcgga ggcgaatcac ctctttcgca gacttcagcc 9840
 cataattata caccaccgcc gccaaatctt ctgaatgcga cttgggtgtg tcccatatgt 9900
 tcgttctcca acccggtgcc gtcgaaacttt gatccgttta cggtaaccaa ttctacgcca 9960
 atacctccga gcctcgcttg gcgaataaag ccttcggtta ccaccgtttt 10010

<210> 5848
 <211> 3847
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5848
 gtaggaccaa cacaatacga ttctgatatc cgacaagtac tacagtccgc aattcaatgt 60
 ccttctactt cacaaaaatg tccttcaata actttgacat cacagccaac gaattcgagc 120
 acgcctgcga aaccggtgat gccgccttta tagctgacat ccttgactcc cgcaccagtc 180
 cacgaatcga ccagcgcaag ccgctcatgg ctgctatact caacaaccac gtcgagatcg 240
 tcaggctcct gctgagccgc ggtgaaccag acgagtgtct tgctgtcaca gcggatgaac 300
 gagcattatc gctggaagcg tctgatatca ctggcagcct gcagtttgcg gcgatgcatg 360
 gaaagataga cgttggtgaa gcgttgctaa ggatgggaat cgccgtcaat tgtgttgaca 420
 gggctggacg gaccgcgcta gggttcgcg cgagggccgg caaaatcgac gttgtcagat 480
 tgcttggtga ggctggggct agtttgacca aagtcgataa ggaggggatg acggcattag 540
 accatgctgc ggctgcagtg gagatcgaac ctatcgactt tataaggggg gagatgagaa 600
 agggcaaggc aaaggtctaa ggctgccgta tgggttcttt tttgttgag ggtttggctt 660
 tgctcagttc cgggctcaca cattgaatct ctttatagtg tatattaaca ccagcatgta 720
 gctcagtaag taaagagata taactatttc attttgcttg tgactgtcgt ggcagataat 780
 aaaaggctta ttcatacgca ttctatcgtg gaatctacgc ttgtatagct gaagttcgaa 840
 attgacgcag tcacaggcga gtagcccgtc acgcatttgc ttatctctta tactaacaag 900
 cttggccttt gcaatatcta actgtgagtc cccagctttg ccgtgctcgg aaacgtctgc 960
 acttcgtgca accattgaga cgaccgtgtc tcccggcaca agaacaggcc aatagaaatg 1020

gctaacgcat atcgccggat ttctcgtaag aaaccatatt gggagtctcg attctgctgg 1080
atctgcgcta cattgggaca tatacttgtc agagaatagg taggcttgag ttggaagccg 1140
gcgagagccgc aggtgtttgg acaaagtggc aggaattctg acagttatct aagtgatcaa 1200
gtatggcatc attcaatata tctaategag actactaatc atgctacctt agtctaaggc 1260
gtgcagctgc attctgatta gtgatcctgc gggattggtc atatatcggg atttgcatte 1320
tgtagggaaa ggtatataag cttcctgata tcatgtcatg ctcaaaaatt acattcagtt 1380
ttttttccat cgaatcaagc ctaacaagaa gattcggcag ctaatggcca cgcatagcta 1440
cagtaacatc atcctcattg gcgtgcgttg atttgcccca gtcgtttaac atgcctgggc 1500
gaaaccctaa cctgactgat caccaggcca ccggctccct gggagacatc ctctgaaat 1560
ctctcctctc agaaccagcc ttcaaagtgg ccatectcac tcgcgagtc tcaaggggcc 1620
gcaccagcat cccgccagca gcgagagtaa tcacaaccgt agattcctac ccgcagaaga 1680
tatggtcaga gccttccaag gccaggatgc ggtcgtgaac gcgatcacta gcttctctgt 1740
cgcagagcag ctgaagttca ttgacacagc tgtagcagct ggggtcaagc ggtatatccc 1800
gtccgagtac gggctcgaca acaataactt tgctgcgcga gagctctcgc ctgtcttccg 1860
agataagggg cgggtgcagg attatgtgcg gctgaaggag gacactggtt taacctggac 1920
ggcgattgcg tgtgggatgt ggattggatg gtactattac ccatttacct acttattcga 1980
ttcatttcat ctcttcaatc tctctagtea acctcaatct gtccgtttta gttccaacat 2040
ttggactgac cttcagctga caaggccatt cgcaacaact cctcggctct gactacggca 2100
gtcggacgat aactttgacc gacgacggac gaggcctctt ctcgacaacc acgctcgcca 2160
gcaccgcgt tgctctgaac cgtatgctac tcagtctagc tccacggcaa accagattgt 2220
tattctgagc gactttgcca cgacgcaggt cgagctcgtt gagacgatcg aaaggcttac 2280
cagtgaacac tggcgacgcg agtctgtcga cccttcgctg gctgagggtt ggagcaaggg 2340
cgataccgca gctgggcatg gattaaccaa tatcggattc accaagggga cgtatggtgg 2400
gcactttgag ccgctttacc aactgagaaa ttgggaactg gcactaccaa caagagatct 2460
tgaggagtg gtcagagagg cgttgcgggg ggttgggcat cgggatttga caggtatggt 2520
cgttgatata tttccgttgg tccaaatata ggtcgtggta gtgtagagga gctgtaagga 2580
ctgttccatg gcagcaagtt cccgtcacat caacatttag ggttggctgc cttgctggaa 2640

atgggggctag attatggaac tagacttcga cgggcctttg gctaaactgg ggatcttgat 2700
 cgcggtgaact cctgacacgc gatcaagatc aagcaagatc ataaactgaa cctactcacc 2760
 taaccgtgcg agtctggcct acacttatca agaaaagtgg aaaaaggaat gaaatacata 2820
 attgtgcaaa tcgtaattaa ctgagcgccg gtaatgctct ggaacaattc aaactatcaa 2880
 ctttaggcac aacagaaaaa ggggcaaggc agatcaagaa tgggtgcattg attctcgctc 2940
 agagaagtac tgtccctgaa ctacgggagt agattaactc cagcgacttg attcaaggta 3000
 gattataatc agactattct tttataagat agaagtcaaa attatctagg catttacggc 3060
 gccccaaaat cgactaggta gtaagagatg gacgcaatgg tataagataa gcttctggct 3120
 ttgctgttgt cgggtcatat atgccgctta aagccgtttc ccagagcgag ctggctagag 3180
 aaaaatgaaa taaaaagtca tctgtcagtg gtttttgtca attcatgacc gtgctgtgag 3240
 aataaagatg tgcgcctgtc atgcaaagct ccgtgggtta tgggtttcca ggtagggcag 3300
 ggaactagga ctcaggacta agtgtacaaa ccaccaacta tttataccag ggctatgcgc 3360
 agaatactaa aattcttaca gtttaccaac agtacttatt agaacttggg ggttttatgt 3420
 acatgatgta gcatcccttc agccatcgac gcacgaaact gacactgatg ctgatgccaa 3480
 tataaacacc attatgaagc acaaatacaa gcgattaaga ggttgatttg tggcacattt 3540
 ctgaaagccg actaagagca gaagtgggat gaatgaacag aataaggctg gaacggcgga 3600
 gatagacatc tgattggaaa cggtcagtc tctatttcaa cctcgctga gtgcgacgtc 3660
 cagcttcatt acatgtactc tggcaagaca ctaagtatga agataggagt attctggacc 3720
 agaataaaca gggtcaggat gttgggtcaag aacggttggc gcgctggata gatatatgtg 3780
 actttcagac ccttgacta gagtgccttt ccccagggt atctcaggac tgtgggatga 3840
 tggaaaa 3847

<210> 5849
 <211> 7372
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 5849

acccagtcac aaccctgatg atcacctcta gcagccagtc tgaccgtctg gccgcattcc 60
 tggccagatg tcggcttcga cattgcccac tcatcgactc tgtcgtgggt tctctgcata 120

ttgctgggcg cttactttca atctcacggc cgatgggatg ttggtccaga tgaaggcccc 180
 tccccacccg ctgctgggag catggctgcc gtccatcata gataattgct gcaatcacgc 240
 cgctcccaga ctctgtttgc ttctccgtct ctctctttgc attcaacgca acattccttc 300
 tgggtttgac cactggtctg catcttggtg caggcagcgc agggttcgcc gctcttcctt 360
 ccaaggctca caatcccagg ccagttatag taatacatat agctagaggt ctacttcgag 420
 caaggtcggt gaccaagatg tctctctctg agtctaagct gacgacgccg tagcgcccct 480
 cgctcagatc gctagctcaa ttgtctgtgg tgcgaagaaa aggtgcgta aggctaggca 540
 cctagagaac cgtctcttcc aatgtatctc gtcgtgacct ttttttacct tctactgaccg 600
 tctactgcta gtgtccaagg ctgtttgtgaa ataatcccag tgcggatttt atccgacgac 660
 gctgtaacgc agctccatgc tctgtctcgc ctaaagcgga cttgctcgct cggtttcagt 720
 tctcagcata agtttcgggt gtgcaacaat tatcagaaca gaaggagcgc taaaccaagg 780
 ctgcgagctg gctctcgctg tgtcttgctc atctatttgc aaccattttc gaatcgtgcc 840
 gtcgaaccct agatccgatg tccgtctcaa gtgacagcca gaacgactct cctcaaactt 900
 acgaaccaac ctttccaagg gaatttgtca gtagcgagaa ccgaagtcac atggcatcat 960
 caccgcagcc ggcgacagtc ggcgctcagg acagttcttc tgaatcaatg gccgcgccct 1020
 tgaagagccc tcgatcgccc cgattcgagg aagcaactgc aatcaattca ccaagtgtg 1080
 cggaagtag caggtctcca tttgcagacc ccccaatca gtctcagaac gcgcctgatg 1140
 tctctgatgt tggttttgga tatgtgaacg cacaggatcc tacacagcat gtaccgcacc 1200
 atcgtgcgcc ggcttctcca ctgaagagcg cattaagagt gccagggacg cccgcacgca 1260
 ccctgaatcc tcttagtcca actttccggg aagagttcaa tctagaaaag caagagaagc 1320
 aagcagagaa agcaaagca aaggacttgg taagtcagat cgcgaacgct tcctggtcac 1380
 gttcatcatt cattaatacc cttcgaatat gttaggctat caagggtgcg gtcagagtcg 1440
 ccaagatttt ctttcgcttc gtcagcttcg gttgtagtct catcgtcctc accatcatag 1500
 cgaccactct gaccattttt cacgcgacca aaaatctgcc tccaaggagc ggtaccactc 1560
 cttgggccgt tgcacaaacc catggcctca gtatctgctt ctcgcaaccg caagtttatc 1620
 gttgctctcc tgtctggtag ttttctggac ttggaaaaag cgcggatata aacgtgcgga 1680
 gaaggttgca gtctactact ctatattttc tgttggcttc ttcggattca ccctcatttt 1740

atggggttggtg gtctcagcca tttaccagaa ttccaagtcc aacggaaata ataaggatct 1800
 gtgggggttggt tctgtcgtga caggaaacct taggtcgaca gcatatgcat cagatatcga 1860
 ctaccactg ttatgccgtc ttcaggtgag tctaaccac agagtccatt tctcgaacca 1920
 tgacctgata gttcgcagga ctgggggtcta gtgtgcgcag ttatcgaaat cgttattgag 1980
 gtcttggtca ttctcatcta cgccgttggtc ttctaccgat tctgggtccaa gcgaaagctc 2040
 gcaaaatcca tggatcgccg ggacaaggcg cggtcggact tgtaccttgc ccagctgcga 2100
 cttcaatctg cccccaatac tcttggtctc ccgttgagtc ccaaactctcc ctgggtctcg 2160
 acaaccatgc aggatcccta ctctccgct gagaaggag aggcaacacc taccagttt 2220
 gctacccccg cctcgccaac taggccccaa ccaactttcc agtccaacc gccacccatt 2280
 cgtgtgcaac acgcaacccc aaagtcagag caagaggagt ttcttgcac tgctcctacg 2340
 ccatctccac cccaagaaca catgggtgct gacccgggg agcggacgta cgaagctgtg 2400
 ccgatcccag tcgcctatgc cagcccaatg tcaccgagct ttctcaagg agcccgctag 2460
 tagctagtat gttgagtggc ttcttttagcg ctctacagaa acatgacctg cagctcctta 2520
 tgccctagga aggactaaaa aaccaaccga agaaaaagcc tggtgagaac tgccaggcat 2580
 ggccgggtaa cccactctag aagtactctg tatttctgga cgggacgggt ctgctcaacg 2640
 tacatattgc ttgtgaccaa agcgtggcgg tggatgctga ctggactggt cctgcccata 2700
 tactaaggat ataaactaat ttctatcac tataagtata ttgggtttct taaacctgca 2760
 agccaaaatt tgtgatgagg acttggtctg ttcaaaccac tccatcactg ttttcttttc 2820
 tttgtgaaag ggctgtgtta tgctgatgct gatgccacgc ttttggttaa cgtataccac 2880
 tgagcggatt gagattcaga gacaatgaga tttatctact attctgcatt tgtacttctc 2940
 aactcgttt atttatccgt tacgaagatg ctgtgtcagg tacataggat tcgaatggat 3000
 caggatgatt accatagttc atttagttct gcgtctcttc agttacactt gctccgaggt 3060
 cgattgggtta atcaacatca tacaatttta cgtcttgaca taactagtag gtaacagaag 3120
 aacaacagcg ttggatattg aagttgaaga catgataacc caataaagaa gatcagttaa 3180
 gtccaccagc caciaactcc cgcaataat cttaatccga gcgtgggtccg aaacatcaca 3240
 aggccagggc taaaacctaa aaccaataag acaaaaaaca aaagttatgt agtagaaata 3300
 ttggaaagtc actgtacatc tgtagcttcg gcgtggtgta cctgcctcac gcggccattt 3360

catcaagaat agcgcttgta tcctttctca caaagatctc ctccaattta cctaaaccaa 3420
ggccgctgct atcatcgctg ttttggagga tgagcccttg ttcattcgcc agatggagta 3480
ggcaaataaa gccgtatgat gtactgatat cacggagcat ctctggaggg tagactgatt 3540
ttagcgagtt cattatttca gtgaagcgca agtgcccttc tttagcaggt tccagggtccg 3600
aagagagcct tgggcgctta tgaattgggg tgggtgttga cgggccatca tcatcagttt 3660
cgtgctgttc tttggacggg ctggtcgag cgctgagttg ggggccgga tccatagcgg 3720
atataagccg ctacccatt cctttccaca tatctgtttt gagccgaccg acgtcaactt 3780
tcttggccac tctggcgtat gcaacatagt caggctcgtgc tctccgacca ccttgcgtta 3840
ccaactgtga ccaaagcct ccagaggcac tttggacttg tgagccacc ggtgttgac 3900
ccaccatatt cagtaatgct ggcagccctg tggccccacc agcatctccc gcagctgtac 3960
ctggaacgcc gccgggtgga ggagacaaca tttccctagc gtcagcgaat ggaagattgt 4020
cgtcgtcgtc aagatcaatg ccattgggga aagcaaggcc atcatcgtcc gcaaagaagt 4080
tagcatcata cgccccagga gctgcctcat catcgccagt ctgacctca gtcttgtgat 4140
tggcccagaa tgctcatcc atctcccat tccctgacgt ctgttcttg cgctcgtggg 4200
tgaagctccg cgccccgttt agtttcttag agcccatgcg tgccttgggc ttgaggaaaa 4260
gtcgaagcag ctgcctcgag ttgaagtgtt tatcatccgg aagcaagttt cggccttttg 4320
ttttccactg cgatttggga agggatattg cggagttaga gcttgcgtgt aaatagatca 4380
attcgccac agtgggatcg agcggcgag aaaaatcaat ttcgaatggc tccttttctt 4440
ttcgtgctt tggcgccgtg ctggcgagc ttgtagcagc attttccttt attcgtcgaa 4500
tcttccaatg ctacgggcca gccagtttt tctgcaatgc gttatcaaaa taactaagaa 4560
tgttctcatg gtcccggtg cttggttggg ggttgagcga tatagcatag gcacgtcat 4620
tgctgaggct tccgccatcc tgaacttctt caccttccaa gtccacacgg tgcaccttaa 4680
gcataggctc caaggcgcc tcccagacc aagcctcccc tccaccgccc aaccagcat 4740
catcactgag atcaaagcca gccaagctgc catcgatc aaacccgaca gcattatcat 4800
catcaagcat gattcctgat gcgtcattgg atggatgccc gtcgtcatcg cctttatcct 4860
gccgccagtc ttcaggagcc ttcagaagag ggatatccaa tgagccacta ggatcaccaa 4920
ggtcgaaatt ctttaaagaa gggcaaatat cttggcgctc aagtctgtca agatctggga 4980

agaacttgct agccaatgga gcgatgtcta tctctacacc tccttcgaat gaatcgctgc 5040
 gaggtgggttc ggtaggtgga gggtgcgatg tcgattccgg gtcttcgagg gactctgact 5100
 gtgctcttgt gtcaccccta tcttgagcag tttccacggc gtcacgcta ctgtcgaata 5160
 caatacggcc atgtccatcg atcgataaat ggtttaagag tagtcctttg gcaccaccct 5220
 cgtcaaagtc tgcggaagct tttttgaaca gcggatcaac tgagaattcg agctcgaatt 5280
 tcttcaactg gagcgaagaa aatgaaggag cgagtgtagc ctctgctgtg cgctgaacat 5340
 ggccaattcc gttagtata cgggctcaag caatgctgag cttctagtgg gaccgtacct 5400
 ttctgctga cctcttgcta gtacctctt cgccgtctc ctcatcgtct tcagcgccct 5460
 cgcttcagc ctccgctcg cgtgctttct tgtccctgct atctgccaaa ccgctcagga 5520
 gtttccctgt ttccgtggcc acgctatcaa ctctgcttgt gtagatcttc acacatccat 5580
 ccaatgtgca gctagctttt tggaagttca cactgtctcc ttccttcaaa agcgacatgt 5640
 cgtggaaata atcgatcaag gcgaaattcc atgagtttgt agcgtaatt ttgttatcgg 5700
 tagccatttt catccactct tcgaagttcg ctaggattgg tacgcgcttc attggggtaa 5760
 cccccgccg cccatgagca tcaactatccc gatgccgatg accagaacct tggggcggtg 5820
 aagggtcat gctcgatcga tcatgtatgg tatacctgcg cggcggcata ggcgttttga 5880
 ctgcggcttt gatttgatcc atctgacggc catgtagagc ctgccgagcc cccatacggg 5940
 ctgctttctc ctcgacatcg tcgttcagcg ggattctaac agaaatgatt agcgtcgctt 6000
 ccaaccttga cttcatttag ctaaagcaag actatacttt aggggtgaat tcttctgagg 6060
 agtcgcggcg ccgttgagc ggcgggtgctt tgagacgcgg ggcatttga taattccgtc 6120
 gttccttggg agcggcacga ataacggaga taccagggtc gacaaaggca gtccttgca 6180
 cgcgacaaag tctgggattc actgaaaatg agacagagta atatgtagtg cgcgatatat 6240
 cagcggcaat cttgccttga gagcatggtt ttgggggtgtt gcagtgcgtg cgtaaatg 6300
 aaatgcaatc gaaaaggcgg agatcgtcaa caaacaagaa agtgtggttc ccctatgcca 6360
 gagcaacttg gctcacgtga ttgttcccga ccatactgat tgacttaggg ggtcgacaca 6420
 gccacggttg caggtgacta ctgcgagtac tgccacagcg cccagtgaac tcagcattct 6480
 cagacaagca agcaacggct tccaatcatt aacctcgagg ctgtttttgc attcccagcc 6540
 gactatgtac actgtgctcc gtacagtga ggtatccact ccgtgctgtg ggtttctgcg 6600

ttgcctatta gactgaagtc tagagtggac tattattgca ttatttctac ttatctagcg 6660
 atagtcttgg tattcttttc tagctattct tccctccaca ccggactcgg cgcccacgat 6720
 gaccccgta catcgccac catgtttgaa gaactgacgt ctattttacc cagagcgctg 6780
 gcccttcgga ggcgtcgata ttccgtcagg tcattttact ggtctcttgc gatattcacc 6840
 gtccttgcgg ccttcagttg gggcttggga cgatggagca gtcccttggg cgctcatggc 6900
 ttcgcaaacc cctcgcttat gaaacgggag aatgaactag aggtacctcc acctgtcct 6960
 aagggtccgac ccagtatga atactaaata attattcaaa atctcttcag tgccgcttgg 7020
 tccgcaacgc gaaagatcaa tgcgcccttg tccgcttgaa ctgtctcgat gaggaagacg 7080
 gtttcttctc gtaccttcaa ttatactact gcgccctcgc acatgcgaag ccgctagctt 7140
 ttatcattat cgtactctgg ctgtcactgc tcttcagtac gattggtatt gcggcaagcg 7200
 acttctgtg tatcgacctc agcaccttgg ccagtctact gggcctgagc gagagtctga 7260
 caggtgttac gttccttggc tttggaaacg gcagtcaaga tgttttttct acatttgctg 7320
 ccatgcggtc caatagtggc agcttggcta ttgaaagcaa tagctgagag ca 7372

<210> 5850
 <211> 4516
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 5850

ggcacgcgtt ttgattagct actgcacat ggcacgcgat ttctacaaag acggcgtgga 60
 tttcgcatta cttgcccttc agtcggccga tttcgctgag ttgtcgggtc aacatataca 120
 attattcagc agcatcctga ctaacataga ccagtctgaa gccgaaccac caattggatt 180
 ttacagaccc cgacgctgtc aggtaaatca cgataatgag cgatatacta ttgcgccgat 240
 tgacgtccag ctctcagaca attgactgtc agtctgtcga aacgggattt tgatctggat 300
 gtcaacatcc cagagactcg attatgcctt ccagtatgtg aagtttgacc tgctgctagg 360
 atccgactga ttgacctata aatagggtcc gaacagggtta aattatgtcc tatggttgca 420
 agatctgctt gacacgacgg gcgctggatg ccgagatgcc tatgagcctg aaagaagtgt 480
 gacaggtctt gacatgtgcg ttctacacc ctttgtcaga aagtttctaa gtcccaccag 540

tggcacagga tgctgcagta tataccctat attaggcgta cgaacgagac cgaattggac 600
 ttttatcgca actggtaagg ggcacatcga gcccggttca tacgtggcta attcaagaag 660
 atatcgacga cgagaacatc aaaagttcta cagagactgt caaggcgaac aaccttgagt 720
 cacgcatccg gattgtgaag accaacgcag ataatgatct catttctctg aacactctag 780
 gagtggaaag gtactgcaag ctagtttctt gacattatcc caagctaaca gccgcgagac 840
 tcgacttcac aatgtgtaat ccaccattct actcttccca agacgaaatg gtagcctcgg 900
 caaaggacaa ggatagacct ccattttcgg tatgatcctg gattcgttag aacgcatgct 960
 ccactacaac taattccgga aaaggcatgc accggcgag agatagaaat ggtcacacgc 1020
 ggcgcggaag tatccttcgt atcccgcata gtcacagaga gtatcgctct ccaagataaa 1080
 gtctctggt acacatccat gtcgggaaa ctaagcagcg tctctacact tatcgaaagg 1140
 cttatcgaac tcggtaacac aaactacgcc gtaacagagt ttgtccaagg aaataagacc 1200
 aggagatggg caattgcttg gtcatgggcg gatcgtcgtc cagctgtggt atgcacccca 1260
 tatttcaata aagaaaggat ttgaagcca actcactg ctgtgcagag cgtcgcccgc 1320
 ggcatcaaaa gccc aaatta cccgaaacac ctctccct tcccatcgga atacaccttc 1380
 gccctcccgg gacgtctat cgacgaaatc agcagtgcag tcaacacaga gctctcgtca 1440
 ctgcatatca gctggacgtg gcatagtgat cttactacgg gaatcggtt cgcgccaca 1500
 aacgtctggt ctgccaaata caggagggcg atgaagatat cctccggtgt cttagaccgg 1560
 aatctggacg ttgacctca tacggggcg ctggggttta gggttcagtt ggctatggag 1620
 tcagacacgg ttagaactgg agatgaaacg agtactgaga agaaggaagt tagggttctc 1680
 gttaggtggc ttaaaggagac tgactcgggtg ctgtttgaga gtttctgtgg catgttgaag 1740
 aggaaactgg aggggcggtg gactactagg tagctttttt gtccgtatca ccacaggaca 1800
 tgagatggaa tgagaaaata gcttgaggta ttcgacggt taaatattac agcttttctc 1860
 tactctggac aagacgaagc acaagaaatc gccaaagtaac gcaaacgaga aatataat 1920
 ggatagtc atttatagga gttttaccta cttagctact tacctacccc ccgaaacctc 1980
 gccctgcaac tccttcagcc ttcccatcc ctccgtatcc tcccaatact cttttccctt 2040
 ccccatgatt cctctaacgg cactcttcgc cttgaacctc caatctttcg caacaagctc 2100
 cttttcttca ccaacctctt tcgtttcttc accgtcttca tcctccttat caagtgtcc 2160

atacttcgca taccactcc tctactagccg ttcagtcgcg ctcacaaatct ccatccaccg 2220
 cttctcatcg cccatttgga acgcaccctg gctagcagaa gcgacggtcg cgcgccaggc 2280
 tttctcgtgc gcttcgaggg ctttcgaggg tctgttgcgg aagcgctcga ccgtggcgat 2340
 gaggagccag aggggcgag agtgcgatgat tagagggacg actgaagatt cgattaaaga 2400
 aagaatggag ccggggattg tgccgctgcg gacgactttc ttcgttctgc atttctctcc 2460
 gcttacatct ccgtcacctg ttgacgtgtt tccgggggtcc ggggttaacgt cgataaggag 2520
 atcctcatag ttgtaatccg taactaggtg gtcaactagc attcccagga tagggatata 2580
 gactgccttt tcacctttct taggacccaa cagctcgatg actttgcgtt gggcggtaat 2640
 gacgtcgcg taggggtgta gaggggggtg aatggatgcg gcgactgtga gcagattgtc 2700
 ccagatacga gagtctgtat tttttagctg tgccggcgcg tggagcgcg cgatggcttc 2760
 gcgtttgcgc ttgtacgggt ctcgtgcggg tttggccggg tgagtttcgg agtcttcttc 2820
 gtcgtcgcg ggttcgctcg cttccgccag ttggtctgta gaatcgcca actcagacgg 2880
 tttggaagtg cgcagcattg cggctgcgag gttactccat gcctcggcgt cattatcttc 2940
 gagttggact gtgcgggtaa aagattcaac tgcttcatcc caccgctgga gtcgagttg 3000
 cacgcagccg agggcaaacc aggcgcctg gttgagtcg ttaatgttta agctcttcgt 3060
 ataggcttcg gcagcttttt cgagggcccg cggtttgagg gtcaggaaat gacgggcgag 3120
 agaccgctgg gcgcgcgcat accgctgggt cgagacatcc caggcgcggt catacaaagt 3180
 tggatcgctt tgaatgtcac ctaagatgca gaagaggcg ggggcgctcg gtggaagagg 3240
 ggaaagtcc ggcccttcga attgctcgtt ctcgtcgtcg gggtttcgg tgggtgcgta 3300
 aagctgtctg cggacagtga ctcgggcttt gtcttctta tcggtggcg cgtaacagag 3360
 cgcaacttca gccacatct gcaggcgctc gtatatgtct agggcggttc gaagccctcc 3420
 caggttgacc cagcggttg ccagctcaga ctcaagatcc caacgggtg caaagctcag 3480
 gagccagatg tacttgagac ggtctgcagc tgacgcgcac tcttcttctt ggggccttgg 3540
 gagaaaagt gttggctctt gttgggcttc tggtgtctgg gtatctgagg tagcggatc 3600
 cgcaagcacc tggtcgacaa gagcttgcaa ctgaaggaca gatcttcaa cagtcctgga 3660
 tctgtaccct tcaattcggc tccgtagtag caaagcttga gtgtagattt gccagttcga 3720
 gctgccaccg tcaagaacac gagtagcata aggagcggtt tcttctcgg tcagtcctgc 3780

ctcaggccgg gtgttagtga tcgctgctgc gaaacaaaga aggatagcag agtccacggg 3840
gtcaagcatt ggttgctctc ccgggtcaag agaggctaag gcgggcgga gagaagattc 3900
ctcctgtaca gtcacagcct ttcttgtga cttttgtca tctggtttag tgaaggaaat 3960
tgcctccaga agggatatcat cgttgagatc cagatttgtc ggtgcagctg cattgtcttt 4020
ggtcctttcc gaggtttcaa ccccatcggt attgcttgga tcttcagcac tcttcgctaa 4080
gatgacaagc tgactgatgt ctctttgttg aaacttggtt cgctttcca atctaccagt 4140
caaagcaaac tcgaacttcc gctccgcagc agcccgttca aggtccgctc tagccttagc 4200
gtcgaagccg tgggtggacat gaacggtagc acgttccagc aggaatttgc cttttccgc 4260
gccagaggtc atatgattaa gcagtgtctc actgatcaca tccagatcct tatagataac 4320
atcctgcagc gtgctgggtga tttctgatag cattttctgg tggaggaaat tgacgcgcat 4380
ccgtgtagtc cgagccacta acggggccacc ctcgacatgt acatcagcat caaccaa³⁵⁴aat 4440
agccttggcc gcagcaaaga gctccacacn aggnngtaagc ttatatgctg cctctccatc 4500
cacagagaga tccccg 4516

<210> 5851
<211> 5735
<212> DNA
<213> Aspergillus nidulans
<400> 5851

gtccgcccag ggctaggttt acacgctgtg ttgttagaga gccttcattt tggatgactg 60
taggtttatc tagtgccctg taactgctca tactgaccga tagcagggaac tgcgctcatt 120
ggagtgttaa gaggattttc ctccatgct atatgagttt ctactcaca tctcttagct 180
tggcacttgc gcctatttcg ggttctgcgt ttacggtaat cacgcctctc atcaagcagg 240
atacctggct aactactaca gcggcatgga atggctacgg taccatattg tataacttcg 300
cggttgccgcg ttttttgggt gatggttcta tcattgacag tgctcgggtc ctatttgatt 360
ctcaggatcg cttgaccaga atatgccggt tttctgaca aactggacca caacggtgat 420
ttgggccttc atcaaaacga ccttcctcct gatgtatctg cacatcttcc gaccttagc 480
acttcagcgc ttogcaatct accttgggct tgttgtcaac tggacattct aactatcat 540
cctcattgtg acgctgtatt ttacctcccc ggccgccggt caaagctggg ccgagtcggt 600

cctatctccg cgctacgcca gaatagacga gtggatgatg cctatcgccg cgggcagttt 660
ggtcctggat gtgtacattc tgctcctccc catcgctctt gtgtggcggc tgcagatgtc 720
aaccaggaag aagctgtgtg tgttgggcgt cttecgctacc ggttttgcgt gcgttgctctg 780
ccccgagtct atttttaccct gattgggctt gacaactaac caatccatgg gacttggtgta 840
gtgcctgcat cgcacccctg ttattttattt actacaaaca caagctctac caccacagcg 900
acgacttcag ctactacacc ctgccggtgc tgattatgtg cataatggaa atgtgcgtgg 960
gaatcacagc tagttgcatg ccctccatgg cgctcctctt ccgcagcgaa aaccacccgt 1020
taagtcggct gtttggtgctg gcgcgaagtt tactgggaag tggatcagag acaagccgag 1080
accaccatac aactagattt agtcgcgctc tcaagccgtg ggacttggat tcgccgaaaa 1140
aacggtcgtg tctgaatatg agtttggatt cgtaccaagt agaccccgac ttggcgggcta 1200
tcaagacgca aatttacagt agcgggggag acagaacggt gcttgagaa tggaatccaa 1260
cagagacatg aattggtgca ggaagtggaa atgcagtcgg tacactcgaa gacgggattg 1320
gtacctgcta atagtaggcg tcctggtgag ccttaggttg tctaagccc tagcctgtat 1380
gcagatatta tgtgatcgaa tctacatatt gctcaaaaag cctaaacagg ttgcctccgc 1440
cgataaggct atgggtctca aatattaacc tgcaggcaat aaccaaaaag caggaatgtg 1500
ctagaattcc taagtgtgca ggctatgagc cccggagggt atgtgacaag tagactgctg 1560
atacacagca tactctggcc caacgtaacc aagcacgcta atcttcacct aaagccgctg 1620
tctcccaaca gatgcagctg cctgaataga gaagccctaa cttagaccc ctcacgggat 1680
accccatcag gcgattacag cggagaccac tccgacagtt tcggccccag aattcctggt 1740
tcgtgctgat cgccaagata tttgtcgaca gattaagcca acgagccgtt agactgcagc 1800
cgtaagcatg accacattaa ctaccattc aacagtgggt tcgccacaag cactctgcat 1860
acggtctgca gctgtaatac tccgctgtgc gggcaagttt ttgctttttc caactcagca 1920
ctcgcatact cagcgcttac atcttggcta cacgggtgag aggtgtgctg gaacgctctg 1980
ggcagagata gcgctatgct cagctggatc ttccaaatcc tatttactca caatgttcaa 2040
tgctcagtgc gtttctccat tgtaaacatt agcagatctg tcacgatgat tgaaatgctt 2100
tctacctggc tcttcggaac ggctgtgtg ctgttgatac tgaacgaggt atacttctcg 2160
ctgtttcagg tacgagctgc cggccacttc ctttttagct gctaataacg acaaaaaaca 2220

gcacctctca acttcgagca tccagaagat agcccgcgat tttgtatgta agagctagag 2280
ctcgtcgggt atctgaaaaa caacggatgt ctgactatct cagttaaacc accgatacta 2340
ccggccatgg gcagcaaaac cgattctcat ccagcaaca agggagatga tgaccgagct 2400
cagtgaggcc acagtgctat cccaaagggc tgtctatgcc gacgtatgaa tcccaaatg 2460
ctgatcacac ctgaggtaaa ttctaactg gaccagatgt ttggattcaa acatacacta 2520
aacaatctcg accacaatga gattaatacg aggaaatccc gcctgttcag ccgtgttttg 2580
caggtgcgag tcccggctca gtttcgggaa ctataccgt gtctctatcg caatctgagg 2640
gctttcctgg acatggaact ccaagctgaa ggtctgcttg cattaacttt gtcgaatgcc 2700
tctaactctg gttgagcaag aaggtaccgc atctgccaga ctgccttcgt tgagtgaacg 2760
gcttctctca cgcctcatgg gcgtgtggtt ctttggcgaa aacatcagt agtgtctcgg 2820
gctcccagtt tgaggaacag aaataactcc atcgagcat cagaccaca attctgcgac 2880
gccctcttga attatccccg gcagatcaag gcatgtgcgg ctgcgtttca gctgacgcca 2940
aagtggctcg catcgtatgt cagaatccag aatagttagg cacagtatcc taagtgtgta 3000
tatttagtcc cgtccacact ataactact gccgtgggaa agcaatgcat cagattcaaa 3060
acaccctcat tgatctcttg gctacacgac ttgagacctg ggacgaggta ccagagacta 3120
aaaaggttca cacttcccc gcaaaaccaa tatataatct aacaagatcc gtagctaacc 3180
ctcctctacc atttattcga actgtcggaa ccaaactcgg attactggac accagaaaca 3240
ctttctcagt caattctggg tctctggctt gcagcctccc atcagccgtg ggtgaatttg 3300
cacgctatat tgctagagct gtgtgtgcgg ccggagtggc aggatgcact gcggaaggag 3360
gcccttgagc atcaagacga ccttgcaagc aagattgatc agctgccact gctggatagc 3420
ttcatgagag aaacggcgcg gttcaattca ttagataaag gtaggcctgc cctaactctaa 3480
acctgccgt ggtgttgcta acgggatttc tcaacttact ttcgagctcc agcggcaatc 3540
cgtcgcaagg ccttgactga ctatacctt tctacgggat cggccgttgt ccgggctgga 3600
tcaatactgt gtgtatctc gtatgatcag acgcgcaatg gcaaaatcta ccagagcccc 3660
gatcaatttg acggcatgcg gttcctcaac gggcgctgtg aggataagtc atctcggttt 3720
gcggatgtgt ctgagaatca cttgatctgg ggttatggtt cccttgcatg gtttggtacc 3780
catccccgt actggatgta tcttaaccgt tttcagtcgg gggaggcatg cctccagttt 3840

tgtttctcaag atgatcattg tccatcttgt gactagctat acgatgcgac tgactgaccc 3900
 gaatgcgcca aggtggtggt catgggagga ttttacgata ccctacgcat caactcgagt 3960
 actgttcagt aaacgcgaga cgagtggctt tcttgctga catggggacg tgggaggcct 4020
 gactattgag catcgagagc ggggatataa tagtttagcg gcacatgtac atcagcccta 4080
 gagttgcagt tacacggcag tagtatacat aagcggttac acaagatcca ctaatatctc 4140
 ggcacgagcc actttatcac caacaaagtg ttcagtttga agtcctattg gctacacca 4200
 taattgatgt atgtgcatg atctccatca cccgcagccc tgtctagagc ttgaataagc 4260
 gtgatgacgt gtcagcatct aagtggctgt caataattga gtcctctgga tgctgcttaa 4320
 ccgcaggga agacgctggt actcgttttc tgagtcactg gtgctgcgga gtaatcaacc 4380
 cttggccaac ataccaatac cggagtagcg cccgacaggg gggtaagagg cttctgcggc 4440
 tgatgcgagt gacaagtaag caaacattct ggtagtgata tgggtgtgacc agctgggcaa 4500
 ctctgggcac tgttaggcga tgtactgggg ctatcttcta gactgggtccc aaaccttgca 4560
 acgtcctgc tttccaacct tgatgcctca cactttctac aatcttcgta gacatggaca 4620
 tctcgacgt ggcttcatca gagttgtata ctctcgctcg gtctctggtg acatcgccag 4680
 tctgccaagg tgtccttttc agccttttga cctggcggt atggcgcttc accatcagtc 4740
 ctaccctcca gcctgaagat cccaaggagg ctccgtattg gatcccatgt atgtttatac 4800
 cgagcccctt gatacaatgt ctgacggacc actgatgcat tgtgtccaaa atatgcagtt 4860
 cttggtacgg cgctccgact ggggaattcaa tgagccgcca ctaacttga tatgccaact 4920
 gctcaggaca cattggcgct gtagccaact tcgatcgcg agttgatcg gcaatgtaag 4980
 ttgaacttag ctctcagacc aaaggctcga tttagcgaca atggaatgaa aaggcttacc 5040
 tacaacttgc tctatgcaga aatcagctag gcaacacaag ggaaccattc gactcaccc 5100
 ttgcggggaa aactatgtac atcattgcag acccgaaaga tgcggcagag ctcatcgaa 5160
 actcgcacag tctgtctacg ctacgacag aactgtatac gaggatgggg attccacagg 5220
 ctgttattga acggctgttc accgtttatc cagacgcacc gtttaacgcg cgaggaatg 5280
 ctctccccgt gcacgcgaca gacgcaatga ttgagatgta ccgcgcgcat ctgtctccgg 5340
 gtgcccagct ggatgagttc ttggagcggg atgtcacaaa gcgtattttg aatgcgttcg 5400
 cgaagattcc tggcctgttt aacaaggtaa gtcgagactc cggcggggccc gccgtagttt 5460

cgttacataa attgtgctgt gaagcattcg taaagggcat cgtaggcgca tactacggag 5520
acctcatctt cagcctcaac ccaggattca ttgcgcagtt tatggtttgg gagaagggtga 5580
attggaaact actctttggg ctgccaagtt ttctgagtgg cgacatgctc gctgctagga 5640
aagggctggg cgatggcttc gttgcatact ttgctcttcc acgtgcggag cgcgggcacc 5700
gagaattatt gggtaaaagg cgtggaggac tccct 5735

<210> 5852
<211> 7384
<212> DNA
<213> *Aspergillus nidulans*
<400> 5852

ttgatectcc aaagttatcg aaatattcga cactgttcga acacccttcc tgtgatcatc 60
tgtcttcttc acaattcatc cgaagaatgc aagtcactcg gtccgtgaaa ccactcagcg 120
gtccagaaag caacgaaaca atgactgtga gtcggcaaat catgttcctg ctgggtgttg 180
gcagatctaa caatgtcccg taccatcaga tgcttgggtg ccggtgcca aagtgtcaag 240
gtgctggaaa agagacttgg gtcattccag gaaaatattg tcacgtatgc ggtactgcct 300
gctgaaaggc aaaccgaggt atggtatcgg cccttcaaag tgtgatctac ttagcgtcct 360
tgactaacia gtatatccca gacttggtca gaatcagagc ccctacctgg aaggatgaag 420
gccattgtc ctgcagggg agcaacacct catcgctcca acacagcccg cttcgaggca 480
caggttgtag cgctccctac tctctatgag tagttcctgc gcgggtagc gctatgaacg 540
tggcaaaaac ttccggcact catcacctcg gtgcgcatca agagccatcc ccagcggagc 600
tgcttgggga gaactgcatg agaggcagtt ggtattgtac caaccatgat aatgaaaacg 660
ggaaataatc gggccagtgg tcatcaggtt gacgagtgtc tgtaatatag atatttaaag 720
ccatgggata tcagataatg aggagacgct ctggtttgca tactgaaagg ttatttaatg 780
atgccctcgc ctgaaagaag ttggagagcc ctgggagtcc tggagggtc cagcttttgc 840
ctttttcagt agcattaaac acttaactat cgtcactgcg gccttatctt gcaggcacta 900
tttgcgcctg aggagaaat agcgtgtac ctgaatgacg tcatcgcccc gcgttggcat 960
cctcacctc atttgtatct catctacttc acctcaacia caaaagtaat aatcatggta 1020
gaaacatata acattgggtc tcgcagcgaa tgcgaacgtc tcgtgaagag ctggggcttc 1080

aaacatgttt ttacctgggc tgatgggagg tgagctaagt actccactca tatactggaa 1140
 gagactgtca ctgacaggaa cagcaacgca tactaccgc ctcatacaca tgggggcctc 1200
 acaacgcacc ttatccgccg ggggacaatg acaatagctt atcccgacga taatgccaaa 1260
 tcgaccagta gggatatcaa ggagacgttc ggggttgggg caaggggtga tgtgcccgct 1320
 ggcaagcgcc atgaggtttg gatcggagat gaagggtgtg aatatgtaat tggggaatag 1380
 gtcgtcgctt cagtggcct agttgcagg ctattggtac ttgtttattg cgctgcatgt 1440
 cagttatggc agttgaagta cttggataat atataccatt tatatttctg tggacgtgtt 1500
 cctttggccg actcctgtcg gctgggaatg cctaacgtta tggcaagatt gtacggagct 1560
 ggctaaattg ggattatatg acagtactat gtctggacta taaaacctcc ataaaactcg 1620
 cctatgcctt cgattgcgct atacacagga tcagcagtct gttttgtaat atacagccca 1680
 gtgaccgttc gcggaattgt aagagctcat cagggcgga gtcttctccg aggtccatac 1740
 ttttattgtt cgcaagttac tatatatatg tctatcttgg tctagacgtg gcaagtaggt 1800
 ctataaacag actctaacc aagcatgctc tagaagcatt tggctttccg cgctggaaca 1860
 agatgggccg acatccagta tcgtcttttc agtaagtaaa tctaaagtca agtctaata 1920
 acagttagct tgtctgaagg ggcgcatttg tgtaagttg atatcctacc gcttgtttcc 1980
 cttatcacca ttggctgcc aagtattgttc acgctcggtc ctgcacattc tgtcccagat 2040
 ttctgccctc ttctggaat aggggttagc ataagttatt aaaggggttc cgaagtgcatt 2100
 acttattgcy cactcataa tagtatcttg caccaacaaa tagaaccaag ctccaagccg 2160
 ccagggttat gagaacacga tttccgacac gataatgcgg tttatcattc tcccgtata 2220
 tctgaagttt caggttagaa tatgacttta tctggagaca taggagcggc tagtgaatat 2280
 agagcactta cgttgttgcc gatgatatta gaaacctgca ccatcatgtt atagatggcg 2340
 ctggcgactg ttctggttga taccgacca gcgtttctgg aagtcattgc cacgattatg 2400
 gcatgtacat aaggggcacc aatcaagatc acgttgagaa tccacaacgc ccatggactg 2460
 gtattgtctg ggaggacggc aagtgaata agcggcacta agcaccagac ttactcaca 2520
 attcccaaga gaaatcgta gtcaaagcgt tccgaaaccc atgtccagaa aagaaggttg 2580
 acaataaaga gagcataagc cggatatagc atcaaattgg tttggaacgt gttgtagccc 2640
 agtgacttca gctggatgga gatataactt gtcgccggag tgtttggaat catccaggtt 2700

agtcctagca ggtatatagg ccacatatca tagtcccaaa gagctttcca tagcatcttc 2760
 ggtgtgactg cttggcggtt gtgcattgtc cccttgctag gatcatctcg aatgattcgg 2820
 ttgaccagga tcttttcttc acgttcactg aaccatccgt ccttcccacg taggatacct 2880
 tttgtctcg ttggcgatgg aggcattccag aaggcggcaa tgatggctat gacaccggtg 2940
 ataagacctt cgtaagcaaa gagatacctc caacctccgg taccatcttc tcttctgatg 3000
 tgaaggaacc cgaatgctag gaaggcacca ataatagcgg tcccttggtg ggagaccag 3060
 aaaaagctca agcggattgg caactctcta gacttgtacc aaaacgaaag gaagaggatt 3120
 gtgtcaggaa tgctagtggg tgtcagcaat gggagggtaa tatcgcaacg tggcttaact 3180
 cacaaaccac cctcgaacaa ccctaatagc gctcggcaag cgtaatatcc accccggttc 3240
 ggtaggaaag cctggcaagc agctatcaaa ctccaagaga acatttgtat ggaatccatc 3300
 ggtccggacc caacttcttg gagatcagct gtgacggtac gtccgcaaaa aggaaggcgc 3360
 aatagaaaat tgtctggcca gtattgtaat cattggtgtt cattccgaga tccgcaagca 3420
 ttgtatcaga cgtggcttgg actacattgc cacgatccag ttggagcgcg aagaacgtga 3480
 tacaggcaaa agtgcatact ctccaatcaa cctaaatatg ctttagcatc catcatgact 3540
 cgcaatcgga aatcgggtat agaatggtgt tacctttctg acaagccttt tctcctcttc 3600
 ttcagaccag tcaaagtcgg gatcccaacg atgtatacct tcatactcg gaattggctt 3660
 atagaacctg gggcttctcg attgatcaaa ggcagcctca ttgtattctc tgaatcgct 3720
 gcgattatta tttccagaat ccgaagaagc ctccgactta acgacagcat ctggaccctt 3780
 cttcgtctcg tcatcgacag gccccgtaat ctgattgctg acggtggcat catctatagc 3840
 cattctgtcg atagagctcg ccatagcggc agacaaatca agagcctagg gtggtcgacc 3900
 aagaaaagtt ggcgatgaac tcttcgcgg agtagtacgg gataactgag aatttaaagc 3960
 ttgatttata cgctgtcat gctggggatt ttgcttgctt ctgctctctg ccattgctagc 4020
 acgtcatcta aacatccaat ttgctaacat ctcaaaggac ttaatagcta cgcacgcggt 4080
 ggtggaaacg accgactatc aaaccaatgg tgagcaacga gcgtgaggcg gcataacgtg 4140
 tatcaggcac aacttcggct tgtgctaaat ctggacgacg gatagtctcc gcagaagttg 4200
 tggcgagata gggcttgaag gaccgaggca tgagtttatg gagaaagctg ctccccgtcc 4260
 tccattgtaa tgcagcactg ggccagtcag aaatgttcct ccaaccgcg tcagtggagg 4320

gctgcttgga agtcgatatc acgcgagttg tgccgcagtt gcgttattgc agacgagtaa 4380
ggagagacca atgataccgg ctctatcta gttgctctt agctcttcgt ggattgaact 4440
ccaacaggca cgagactggc aacagagtac tcggtgagat gggagtatat gtcgccatcg 4500
tcgccaacgt cacaacatca ggcttgacgg ctattgggccc cggtcgcacg tgatcgatta 4560
ggatcccaga cgaactcaag gacatagcgt ttattgaaaa tctggagtac tttagtagcg 4620
catggctcca ggttgccctg acagccgtca gaccttgttt ccatggacga ggaaaaccag 4680
cagaaaacac ttgcgtccag tcacagaagg ttcaatatag cagtgattgc agtgggacta 4740
aagtgggaat ggtggataat cttgtcagcg tgtaagagt cagaaagttt ggagtggaga 4800
gagactcacg gttgcgttcg cgcaataaaa agcaacaatc gcgccatcac caccctccct 4860
gctctcatca gaactttcct cgcttcttgc aaccgtttca gagccaacca gctacacaaa 4920
tcatgtttac atcagcttct ccaaggggta taggcagcat tgggtgttga tggccgaatc 4980
aatccacag ccggtatcaa aatgctcatc gtacgcttcc atcacgccat gtcgaagcca 5040
ccacgaggct caatcatatc tgggtctgcg attgttctcg tccgagagcc tctatgctaa 5100
gcgagagtac gatgtattat tgcattatac ctttcccgtc ctctgtacga tctcgcctc 5160
catacagtcg tgaaccccg cttgctaacc cagacgtcca tccagattgt gaaggagatg 5220
aatcatatcc cgcagacatt gcgccagaat gccagttaac cgggtaatcg gatcaaaatg 5280
aacgggtctat ataacacgtc gatgggtccg aggctcgtc ggtagctgtt gagaatagtc 5340
tgttgagctt tgacgacttc tgttgtacac aatggcgcct tctattgcaa cctctgagca 5400
cgttgacctt cgggcaccaa taaagaccct gctcaagaca aacgcagggc acaacaagga 5460
gaacgtgac ggatatgggg aaacctacaa gcatgcggat gagctaaaag gcaccgtcaa 5520
acagcctcct gcatcgtttc ctcatatct tcccgtctgg gacaacgaga ctgagaggtc 5580
aggataccat agctctctag tgggattgat tctaacttgg ctatcaacag ataccacccc 5640
ctgcagccct tcgagcatta tgaccacggc aaagacgccg acccggcctt tccagacctc 5700
tttcccaagg atgcgtcctt ccaccgagac gacctcacgc ctaccatagg ctccgaagtc 5760
agcggcatcc aattaagtca actaagcaag gagggcaaag accagctcgc ccttttcgtc 5820
gcccagagga aggtggtcgc ctttcgcgac caagatttcg cccaccttc tattgacaag 5880
gcctcagagt tcggcgata cttcggccgc caccacattc atcaagcttc cggagcccc 5940

aggggctacc cggagattca tcttgtgcac cgtggagcgg atgataccag cggagcggac 6000
 ttcccttgccc aacatacaaa ctctatcacc tggcactccg atgtgacctt taaggtgcag 6060
 ccccccgaa ctaccttctt ctaccttctc gacggcccta cgactggcgg agacactctc 6120
 ttcgcggaaca tggcacaggg atacaagcgt ctctcgctg aatttcgcaa gcgtctgcac 6180
 ggtctaaaga ccgtgcactc cggcggttgag caagttaaca acagtctgaa caagggcggc 6240
 attgcccggc gtgacctat tatgacggaa caccctattg tgcggactca cccggtgact 6300
 ggggagaagg ctctcttcgt gaacgctcaa tgtatgacca ttctgcccac taataaaatt 6360
 tcccgtttac agctcaattt gttttcaagg actaacaatg caccgacta gtcacgcgtt 6420
 acatcgtcgg ctacaagaag gaagaatccg atttcctcct caagttctc tacgaccata 6480
 tcgccctatc gcaggatatt caaaccgcg tgagatggcg ccctggcaca gtggtcgtct 6540
 gggatgtatg tttcaaatct atgccaactc caccgccgac actttgtacg ctaacctaac 6600
 tactctagaa tcgtgttgcc tgccacagtg cgcttttcga ctgggctgac ggccagagac 6660
 gccacttggc aaggatcacg cctcaagcag agcggcctta cgagacgccg ttcgaagggt 6720
 aatggttccg ttcactagtt cggtgcaaaa atcatgacga tgagaagaat aggaatgcga 6780
 atgacatatg cttgagtgac agcttgaca tatctggaga ttgtaaatag tcaaacaagt 6840
 gggcggttta gtttattcaa taccactgtc gttttacaaa catttctggg cggggatacc 6900
 gccagaatac tggcttctcc ggtcaagccc taagatttcc tctacggtca ttgactcgct 6960
 atattcaagc agtgagcaca aataccaata caaacgcct tgtactggcg cgtgagcgtc 7020
 ttgtctgtcc tattatgaac accccaatgt tgggcgacgc cataatcgga gggcccagg 7080
 agtctgggtt ttgatgcga aggcgaatcc cttcatgtca gtagccatga tatgctccag 7140
 atccatctat cctctgcac attcgtggc atctggcgtg gtcactctggc gatttattgt 7200
 tcagctgcac tggagcaagt atcatgcaca agggatatgt taaaagata aagcacatac 7260
 tctgacccaa ggagaaggga catggcatta atggtatcca tatttgtggc tgaagaaaaa 7320
 gcagacataa aaacaatgca tgagtcacgc gacctggagc ccaacttcag cgagaagacg 7380
 gtgc 7384

<210> 5853
 <211> 2510
 <212> DNA

<213> Aspergillus nidulans

<400> 5853

caacggcatc gagaagtaga agtggtgggt ttatattcct aattagttta ttgtttctca 60
ttcacactca tggagtaagg aaagttttta gatacaagag agaagaaaag atatatacaa 120
tatatgcaat gtacaggaca agagacaaga gcaaccatta tgctcactca tgctgtcgag 180
gacatggtca ggtccaccga gtcgtaaaac atgcagggtga cgattccaag gacaagaaaa 240
agccaaccaa acagtcagat atcgaagaca gaaagcatcc aacatcaaca tctaaagctg 300
aaacccatat cccctcgcgc tcgcgcttcc acttccatcc cacggcacct caaccctaa 360
ttctctcgca accctcattg cagaaaccac acaccctcc aacagcacca tcccatccca 420
acaccacccg ccaacaaggt agacgttccc atcgccattc ttccaccctt ttctcgagac 480
ggcacccttc cactcttctt tctcctcaca ctgcgtagtgc acgggtgatt tgctgcggga 540
aaagaggggag ttgacgatgt cgcgggtggc gggagttcga aggacgcggg taaagcgcac 600
gctgtgcaga acctgttctt cagaaatgct gttctcgagc gcatagggtc tgactaggac 660
gttggcgggg tggtcgtgga ctgactcggg gcgggatgtc cctgaggcgt cgggtctcagt 720
aaccatgtgc atggccgtca ggacgggggt gcttgagcca gaagcggaga cagagccatt 780
tgaggaggga atcggtctcg ccggttcaaa agaccttatg ccccgtttct gcagccgccc 840
acaatcccgc aggtgggcgc tgactttgct aataccactg taatcccgat gcacaacagt 900
ccgtacctcc gttgtgggaa tggccttcat cgccaacgaa agcggggtga agatcctgcc 960
tacgacatcc ggcgtcgtgg caataatgac ccggtcgtac tcattcatgc caaccgctg 1020
gttattagtc cctgcattcg cgacaaaatg cacgcggact ctcccgctgc ctagtgtctc 1080
gacctttgtg gcccggtggg tgtatttcac gtttagtcct gatgagaggc gcatctccgc 1140
ttgcttgaca ccgcgggtga gcgtgtagtg cggtttgagg taggtttggc gcgcatagcc 1200
gattatgtca gaggcaggga agttgaggag ttcttcgtgc gtgcatgtcg ttatactgga 1260
catgaggggt aagaagaacc aggttggtga gtaggatggg atcccaatgc gggagagata 1320
tgcgcgaggg gtttcgtgc ttccagcgtt ggtgggatca tgagcatgag gggtagggtg 1380
gttgtctttg gcacctctgg cactagactc tatccccccc ttgcccttgc cttcttctgt 1440
caggggcatc gtcgtctttg ggggtatcca aaagcaggca aacgtgaacc agagatacca 1500

gaagagtagg tacagaagct cgaatacgtc ctttgttgct cgcagcccg cgggacgaat 1560
 tggcgggagg atgtgggtgt tggaggagt gatgaagtac gcacctcgtt tctcgtcttt 1620
 cctctcagtt ttggaagggc aattcttggt gtttctagag aaagatatgc tgtagacaaa 1680
 ttttgagag gcaaagacaa ccccgagaaa cttgtacatc ttcaagagat tgctcgtagta 1740
 tccggctgca aaggcgcgca tggggagggtc aactcttctc cttctactt cgtcttctcc 1800
 ttccttttgg tccttcacta tctcatcttt cacagcgcca gacactgaag tagagttaaa 1860
 tccagaatca tttggccctg gagcctgtgc cgcagcagaa acagagccct cagcaaactc 1920
 cggaagctca aagctcgccg agtccagtga caaacatct tgctgtacat ccatcagcac 1980
 acgccacaat cccacggaa acgattcaca taagtgccaa ggaacgaaga aagaaaaaag 2040
 aaacatacca cctctaaaac ctccacatcg tacctcttct ggctatcatt agcaagcaaa 2100
 aaagccacaa caagccccgc catccttgag ccacgatcc ccaccgtctc gcagccactc 2160
 agggtaaagt agctatgaga actcgagctg gaatttgact tgccctgctc atggaagtct 2220
 gaacggcgca tgtaggtttg tgcagatctc gttctggatc tgagttctcc ttgtttaatg 2280
 ttggcgggtg agatagggtt atcttgacgg tgaggctggc tattgatgtt gtccatggca 2340
 atggacactg gtgattgcgc gtctgacgcc gccatcttaa tttctatgtt tttatgatca 2400
 tgcgacccaa ggtgtgggtg cagaatgtaa gggaaagaag agttgtgatt tttatcagcg 2460
 caagtcgaag atcctagtat tctatagtgt cacctaaatc gtaggtgtat 2510

<210> 5854

<211> 6540

<212> DNA

<213> Aspergillus nidulans

<400> 5854

gtgggcctcg acctggaggg taggatcctc gtatattgac attttagagc tactgatggt 60
 atatcagctg gtatatcgac attcatgaca tcgtgagtta cataaaattg tattccaac 120
 ttatataaac ccaccgggcg gtggtgacgc ttcccttgct tcggtttcaa ccattgagat 180
 agttggccgg taccgcttcc tctcccaacc cggaataccg ttgctaaagg tgatgggagt 240
 catcgctgc aaaccagtct cggagcccg atttgcagtc ctattgtcat ttctgtctt 300
 ctccggctcc gccgtgtttg gcagcgggtt caaaccagca actgtatgat tagaccag 360

actagctgac tgcactcaat gcactcgagt attggacaat gactcgggcg ttggatccgc 420
 gcctgtcgtg gaatctgtcg gcacgatctc gtcgaacatt ggatttcgcg ttgcgcggag 480
 gatttgtgtg ggggagtcga ggaaggcgat tccattatcc cacatcgtga gcagacctgc 540
 gattatgcag aggagagagg tgaagacgga gaggccgtag gcgaggagta gattgcgctg 600
 ggagtaaaca tattcggttt ggcttgggtg ggtagttacg ttgacgaggg ggccaatgga 660
 cgtgtttctg tggttatttg ttagcttttg ccggtttagt cttggagtag gtggaggcat 720
 aggttgaag taaaatgcca ggttgaaca tacaggaaat agggactgcc aaagaagctt 780
 aggttgatat tccgccctaa ctccgaggca acgtctagga ttgagcctag ggagtcgtaa 840
 gtcgtattgc cgactttctt tttatcgta taaaccagct gccagatttg tttggaattg 900
 actagcgcgg aggaataaat ttttgtgtcg gtgcagattg agccgctttg aacgcatctt 960
 cctatcaaca catctcgaaa caccctcatc atggccgtgt aagcgaaaag ctggtcttcg 1020
 ttgcgcgggg ggggtatctc gtgttgtctg tgatcccga caccgaccag aatctggaga 1080
 tcagtgatcc tagttgattg aacgccgttg gtgaagttga agtccactga atacgaggcg 1140
 ttgtatatac cacattctac caccatcgc ttatccagag gcatatatgg cgagacggtc 1200
 attatcaatt tgccagccac atcagcgtcc ctatctccgt tatcaggacc ttggtagggc 1260
 tcgtagacta gctggttcat ggcagagat atgttatctg tctcggacat gaagcccatg 1320
 aaagacgtgg agtgggcgta gttggcatgt gccagtcgt atacttgctg gtcacattg 1380
 gcactggagt tactgcattg gattagcggg ccagggaagg tcagtgaata tgacgagttt 1440
 ggcgctggtg ctggaatgct gggaatcggt ccttgatga cggctccggt tatgaagcgg 1500
 gtgacgctcg gtgttgacc cgtcgggcc ccatcgcca tgggtgtagaa tttgtcgaag 1560
 ttaaaatcaa tggctggcat ttgttgttct tgtaacatag accctattgt agaacgaact 1620
 gatagcgttg aaggggtcac aacagtgacc aggggaatac acctgaggca ctttagcagg 1680
 cttgagacca catagacaag gaccacgcac cagagatta gcccagtat agccacatta 1740
 ggacctcgaa gccatatatg gaggtcgaag aagttgaaga tggtgccccg gatatccac 1800
 attgaatcta gagttgacag cctcaccggt ttcattcgta agatccacca gatattctgg 1860
 acgcaggcga taccgacgct tgtagtcaaa aacgtcttcg ttaaaaaggc gagtccggtg 1920
 cctactctca aggaccattc ctgctgagtt tgtccggaa cgatggtgcc atccaaggag 1980

aagtagtaaa aatggtgacc aagcgccagc cctagtccta taatccaaca tacggccata 2040
gccgctggca ttctccaatg gatgccattt cttctttcaa gtgtgccctt gtctatgaat 2100
ggcctagtta gtacaagtta tataaaaagc tgagggcaag gtcttaccac tttttgaaaa 2160
catattctga aatgcaaaag caattccttg ggggcatgct acagggtagt catcgcccta 2220
taagtagtgg cagccacttt accccaaacc ccggccaggc gcttaatagt atttttacct 2280
ggcggcaact gtgtccttac ctgcaacatg caatcatagt tgcaggagcg ggtgctgttg 2340
ttccccgctc taaggatagc tatgcgactt aattggctct agccattgtg attgaggctg 2400
taggcctgta actaggacgt agtgcgaggt cgtcccctac ccgatagagg aagattttcg 2460
agagctgcac accctgaacg aagaccatcg tcccttgact ttgactcata acgatgcgga 2520
gctatctctg atcgagagat gctattcgag ctgaaacaat gccgctgcaa ggacggagta 2580
ggatgggtca tttgtctctg agccagccga caatgcattg tcccaggcct gtgttccgcg 2640
ccccaagtcc tcaaccatcg tgggttaagat gacgaagtca gcccttattt ctcagtgggt 2700
gatcagtgat ctagacatcc aatacaatta tttaatactt actccgactt gaacaagcaa 2760
tgactttatg cgttctagat ttgagcgagg gcaagggctg gatatctcgc caaagcacga 2820
ggcgtgggat taaacgcaaa gtcgaaaaaa aaattcgatt accctatctc cactaccgta 2880
gagtaaaaat cttggacgat ttggcgccat gacggatgat gttgtggatg cgaaaaagcg 2940
ctttcatgcc caaggtctta atgtactcct aatgtgtatc taatggtcac gtcgcctggc 3000
taccacctgg atgacctgat ttactttcgt gtgaatcact tcgttgtgcc ttcaagagac 3060
aattcctgac gctaccgttc aacacgagtt tataggtata acagcccgcg aaatgttctg 3120
agatcgtaag tccgttgaat tagcatgtac agagtaagaa caaagtaaac cggcggatgc 3180
aacccaaaat gaaccaatcg atatagaaga caagaagggtg atatatttac tacaggagca 3240
caaagtatac gaagaaaagg agaatatggt ccacccgtgc taagtgaac gacggacata 3300
acagggaaac acgaaagtct gcattcaaga tgccgcgcaa ctagacgccc ggattaccga 3360
cttaaaattg gtcgatgcat tcacagtgtc gctcaacatt gtatttgtcg ctggtagcga 3420
acttagactt ccagccgtca tcggcgtagg agaagaaaac ggaaacatcg ccaaccttct 3480
cgacgaggga cttgatggca gtggtttgct gggactgacc gggaatagcc ttgccgttag 3540
cactaccggc gttgggccag ccgggctgga ggctaattgac gtccttgcca gtgcagacct 3600

gcttcagatc cttgatctgg ttgctgacga gagtaccggc ctcagcggcg gtgaactcgg 3660
ggttgaagaa ggggtgaagg ttcgcaccca ggatatcaac gacagggcag agagtagcac 3720
cgttactgag ccagacgtcg ataggctcag cgggtggaac ctggccagtg tagccggcgg 3780
cagagaaagc gctggcgccc tcggagacga agctggcgag ctgggcagcg gacgcgatgt 3840
tgctagtgc gacttcgtta ccgacaacaa tgagagagac aagatccac tggccccagt 3900
tggtaatgtc cttgaactgg gaacgagcac catcaaaacc ggtggagccc tcgacattga 3960
caccgaggat catcttgagg ccgtgggtgc tgcaagcagc tccaacgtac tcgagggtgt 4020
ggcagtcggt tccgtaaaca cgaacgtggg agaatccctt ccccttgata agaccaacct 4080
gctcaagaac atcgttcttg gccatgcagc ttccgtcgtt gttgtagggg gtgaaagtca 4140
taccatctt gtttccgcta gcaccggtgg ggacgctggt ggacagcag gtggtggtgc 4200
tgctgctggg aacagcagta gtggtcgagg cagcagaggt ggtgggcagg gcagggacgc 4260
tggtggggac attgccgttg gtgtaagggc agacatagac gtcctcagtg cgagtcacgg 4320
tgatggtggt accagggttg gtgtaggtgc caggggtgac ggtttccggg gtggggtaga 4380
caacgacggt ggaggtaggg acgaaggtgg tggtcggggc aatggtgtag gtaccagccg 4440
aggggcagac gtaggtcgtg gtctcgatga cgctggtgac ggtgctgcca gtgggcttga 4500
cgggtggcata ggggcagggt atggtcgtgg cggctcgcac aatggtggtg acaccaccgt 4560
aggtgtgggt accgctgggg agctcagtgg tagtagcgcc gcagacagtg gtggtatcgg 4620
tgacggtgat ggtggtagca gggatggtgt aggtaccagt ctccgagtag ctggtcacgc 4680
cggcgggtgg gagagtgacc tcgggggttg gacaggaggt ctcggaagga gtctcgaccg 4740
gagcggcata ggaagtcgca gtgaccgtga cggtgctgta gctggtagag tgaacagtct 4800
cggtggtctc agaggtcacg gtgctggtag gaaccgagag ggggatagct ggaggttgtt 4860
agctcgtcca tcacgaccgt tctgatggaa accaggattc tcaattgtag gctcgcccca 4920
gtaggtgatg acctcggtgg tgcagccgca ctctcctcg ggaacagcgg aagaggcgtg 4980
gagggcacgg tggtgaagac cctcgtgggc atggcggcgc atgtgcatgt ccgcaacggc 5040
ggtgccggcg aaggcggccg cgggtggccag gatagctccc ctcatggtga atagaaagta 5100
aacaacgggt tatatattcg agttggtttt tggggagtgt atatgtagaa ttgcaatgaa 5160
tgcccgtga aagagtgaag cgggtggtcaa cagcacgatt gcaaaagagt gacggggagg 5220

agaggaagcc tctggaccga tgaaaatcag agagagcgat caccgagaga agagaaaagg 5280
 cgagaagaag aagggcgagg caggagaaaa gagggggcaa cagggaatt agagccaatt 5340
 catgacgggg cttggggagc cggcgaggct ggtgattggc gcgacgacgg tctggccagg 5400
 atcagagaag actgaggaga ctaattgggg caaaaggggc atcctgggcg aagagggcag 5460
 actgcagagc ccagcagcca ctgccagcca gccagccagc cagcagcgga ggggccgatc 5520
 tcatgaacgg agtggggcga gcggaaatta tacctcgtat cttgaccact gacagcgtgg 5580
 tccagctcgc gtggcttcct ctttaggtaa ggtctaaaca ccactccact tccttctcag 5640
 ttccctcagt tcccttgag agagtccagt ctcgatttac agaaatccag caagctccag 5700
 cctgactgct gttcccttgt atacttggac atcgcaatt ggttcagcct cctcgtggac 5760
 gcccaacggc aaggaagtgt gcagactcca gaccaacgtg ttactcagac tgactgttga 5820
 ggtgacacgt cttcagaatt agagtttcaa acttaccatg tgagctgaaa tgccgtttca 5880
 gaccgaatct gtcagctgga gtaaggctga gctttcgaac tgctcctgtc agtccgccac 5940
 ccggcagttt ctaactgttt gctcaagaca ttttcagat gtctctgatt tcttcagtta 6000
 ccctgcccac ttccagagag gtgactggga gtctgacaca tggttcccac gttgtctcca 6060
 gccacaaaa atgaacagaa atccaaatct tgggacaccc aaccatgctg aaattgtccc 6120
 ggcccacttt taaccgacaa gtgaagtctg ccactgggtca gttcctgctg agggctctgag 6180
 cggtcgacca atgataatac ttttgtgcct gactactgtt acgcaatata caccgctgta 6240
 cgggaatctc ccgtatctta gtcaggggggt tctatctctt gatgatgggt gcgatggctc 6300
 agcctcatat agaagtccga gttgaccgtt aagtaagact gaacgtgcgc ttggtagcgc 6360
 cagacaaagc cacaaagatt gaaggctctg tcgaggttca ggggaataat gaacgagtag 6420
 ccgtgatccg atggagattg gaacggacag gttattattg tcaataatct ggtcgatcgt 6480
 caccagagat ggacagagaa gagactacat aaggactgag cggagatccg gtttttccat 6540

<210> 5855
 <211> 6570
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5855

ttagatgagc tatgctacgt cctggacagt cactaatgac ctttatctat aacctaccgt 60

agattaaacc ataaaaatga aagaacacat gggtgagaat tcaagagaga aacattaata 120
 tattaaagaa tagaagttat atataaacgc gtagacacat tagaggtagc acaggatata 180
 tcccgaagaa tattgtcgca aattagtctg tcacaaagtg tatcaagaga acacaaaatg 240
 tggtttagatt taaccatctt gatcaattaa tcaatgaaaa aaagacatat tgagttaata 300
 tgagcaagat tagagcttga caaccctcga ctcttcgcc acaattgccg ccagttgcga 360
 gatgctccct gtcccgcga taaccataag ctggacattc gcatgcaagt acgccccgat 420
 ccagtttcgc aattcaacag caacaagcga gtcgacgccg taactgtcaa gactctgcgc 480
 aggtgaaagc atctccacag gcgtgactat aagcttgctt agctgggtga gaatcgcgtt 540
 tgtgacgata tggacagctt cgtcgagttg tgttgccgct gataggagag tgattgcgtc 600
 gagagcctca ccggcgctct tctgcttact gccgttgctc ttgacgagtt gagaaaagcg 660
 acggtcctgc atgaggaaat cgcgtccgtt ctcgattcg tcgtcggagg cgatgagccc 720
 gattgatgca acgcagggtgc ttgggttggc accgcgagcg ttcaagatgg cgtggttcag 780
 aacgatgagg acgtcagaca caccgattga cccgagcccg ttgcggcgga gggcctctgc 840
 gacttccggg ttctccgaga catatccgac gtcgcggatg gggccgatat tgatggagaa 900
 tgccgggctcg ccttgctgta ccatgtggcg gacaaacgtg tcctggaagc tgcacgccgc 960
 gctgtaattt gactggccgt agttgccgcg cacagcgacg atagaagaca tcatgacgaa 1020
 gaagtcaagc gatttaaagc ttgtgtgcag attctgcgat ccgcgaacct tggaggcgag 1080
 agcagtgcgc cagtcgtctt ctgtcatgtt gtcgaagaga gtgtcgcgga ggaccatggc 1140
 cgaattgata actccgcgca caggcggtaa ttctgagcgc ttcagctctt gagccaacgc 1200
 aaccacggcg tcacgcgaga cgacgtcaca aggtggtgca atcagattta ctccgcggcc 1260
 acggatgtta ctgatgaatg tgcggctgtc tgcattcttt gcacccgagc gtgagagggc 1320
 gacaatgtgc tttgcgccat gatcagctaa ccagggtgta agccagcgtc ctagaccacc 1380
 caagccaccg acaactatgt acgatgcac ttctgaagc ctggcctgct ttggcataga 1440
 cgggacagcc tagacagatg agcaagttat attcacgtgt aggaagtatt tgggacttac 1500
 cggctacttct tggttctctt ccaccgtgag gacaatcttc ccagtatgct tgccagcctg 1560
 gatttgacgg aaggcgatct caatatcaga aatcggcatt gtggtcagag tcaactggctg 1620
 aatagaacca gatgctgcaa gatccgcaat gtcattggagc aaccttctcg ccaagggttt 1680

cctttgctca ataatagccg tcaagtcaac ataagaaaa gtgatgttgc gtaggaggaa 1740
ctccattggc atcaaagcat catccattag atccttacgc ccaatctcaa cgaaacgacc 1800
gaaggaggcc atcaaattgc atgattcgcg gaacatttcg ccgctcagag agttcagaac 1860
aacatccaca ccataaccgc ctgtggattt catgatctcc ccgtagaaag ctgtcgtacg 1920
gctcgagaag atatggtcgt agggaaacacc gtatttagcg tgaagaagat cgcgctttgc 1980
ctcgcttcca actgtggcga agacctcggc tccgagatgc tgggcaagca tgatcgcgcc 2040
ttgtccaaca gcacctgcgg cggaatggat aagaatcttc tcacccttgg acagggagcc 2100
cttatcaaca agtccatagt agaccgtagc ccaaacaatc ggaagcgatg cgccctctgc 2160
gaaggacaga gagtcgggta tgacctgaca gcagtctccg tgaacaagag gatagttggg 2220
gtaggagcgg gaataaagtg cgcagaccgc atctccgggc ttgaagcggg gcttcatgtt 2280
ttcgcccaact tcgacgacga caccgctgca gtcgtttctc atctccgtga tgccctcaag 2340
ctggccagca gcgataagaa catctttgaa gttgatactc gctccacgta gttcgaagcg 2400
aacatcattt gttctgagag gtgggcattc aatatcgtcc ttccagcgaa tgggtctcaag 2460
tagaccggga actcctagct cagcagtcaa aattctgccc gtactgacga atggaaccgg 2520
ttctgaagct gcttgtcgac tagtcaaate cacatctcta ctgatatcag gtctgtatgc 2580
gtagcgtgat acaaacagct gccatcctt ttccgtgaac tcattctcaa cttcactact 2640
gagacagtca aggtcaaagc tcgaactgtt aaggattatc gggagaactt ctttaagttt 2700
gctcatgact ggacggttgg gagtctggat gtccaatata acctggcgca gatttggata 2760
ttccagacgc attgttcggg cgaagccagc ccacaagccg gtttctgcat gagaagaatc 2820
cgccatggtg cagttgctga ccaagagcac ggcccgcat ttcaagatcc agtttttgaa 2880
agaattccag acattcacat ctggttcagc gcataacagc ttggcaattt ctggaagcaa 2940
gatggcaact ccccatgct gacatggatg agtaatgggc aatagagcta ccgacgtctg 3000
acaggcctgc tgaatctctt gcgcctgctc ttctgtggcg ttggatgcat ttgaatctgt 3060
gaggagatgg atcggaagcg attcattcct cctcgggaaa ggcgcagtag atatgaagac 3120
gctgagactg ccgccatttt catgggggta atcaacaaag gccttttcaa tatgagcaaa 3180
gccagccttt tccaatcgct gacaccactc agagtccgta agaagggggg agcgcgtgcg 3240
accttcatca tagccaagcc accaaccttc aaataggcca aaaactatgt taaaataaag 3300

ggtataacga gagatctcca ttagcataaa cttgcctccg ggcttcaaca agggctctgat 3360
 gttgcggagg gtctcatcaa tccgcggcgt cgcgtggatg acgttgcagc cgacgatgag 3420
 gtcgtatgcg ccttcctcaa atccctgctc ttgggcattg cgcctccgat ccaagacgcg 3480
 aaactcgacc acgttggcaa gatcacctag ccgctcctta gcaggctcga agaagccggg 3540
 tgagatatct gtgaaatcat aacgctggat aaatcggccg ctgcaatcgt tcagggcctt 3600
 cagaatcggc agtgtggctg aaccagtacc ggcgccaatc tcaagaacct tcagttgcgg 3660
 gttgaaacga cctagctcgt gacaatacgc gctcatctgc gggtatagtc ttgatgagca 3720
 ccattcagta tagacacggg acaacaagtt gtttttcgtc aataatgaca acgcagacgt 3780
 cttgcccttg aggatatcca ctagatgcgg tcccagaata gctattgcct caccgataac 3840
 tccaaggtct tcgggtttgt tctcgagtag tatattgtcg taagtttcgt ctgcaagagt 3900
 acccatccac tggaaatagc gctggagatg ggtttcctga atgtcattca gcgagatttc 3960
 acgtatagcg ttttgcgcaa agtggatggg tattgcatcc agggcacggg tgggtctccat 4020
 tagagagcct aactcaattg tagccctgca gacctgatct cgatgttctg ttgtccaagc 4080
 atcaacatat ggaacaagcg tctgagtgtg gcacgcctcc cttttcgaga ctctgctgc 4140
 aacgtcacct cccaagctag tgacacggat accctgcgcg acaacagcca tttgggttaat 4200
 ctcatccttg gtgtgaaggc caaagactaa tggctcattc cggcgaatcg tggagcaagt 4260
 caaatagctc cctggagcca catgacgatt cgcaacccaa agctgtttta tgaagggtggg 4320
 cacgtatgcg gatgagcggc catcttccaa gtagatcaca gtagacagac cgtggaagag 4380
 ggcagagtca agcacggccg ggtggagcaa atcctccatt ccgcctgatg gcatctcgta 4440
 ctcgggaaacg cgagcagtgg caacgcacga atgcttgctg ctacgaatctt ggtgcaagtt 4500
 gttgaaaggg tgctgccaat caaggccgtt tcgtttgcca acggcataga acttttgtgg 4560
 tatggtgcca tgagtgcact ctgagtcgat acgagaaata tcagcaggcg tgaatatact 4620
 cctgaaacct tcaacagagt caacctctgc ctggacgaga ccgcgacagt gctccgtcca 4680
 tttctggtcg ggtgtcacgg tgaagatacg gaactcgttc cagataacctg atgactcgcg 4740
 agcggttctc gcttgtggac gcagagatag cgagatctcg acttcggcgt tctcatcagg 4800
 tagcacgagg cctttcccaa agctaacatc acggagacga ataaattgaa ttgtagaagc 4860
 tggattggct gtgtgcatat gctggcgaat ggcttgatt gccattgtga tataacctgc 4920

cgcaggaat gtgatgagcc cttgtataat gtggttacgg agccaagggg tttccttgag 4980
 gctgacgaac cgccgccagc ggggctctag tttgttaaca tctgcagaaa gggttccaag 5040
 gagttcatgc gggagatggt ctcggtgtct atagtcctta gacaggcggg tttcgtgcca 5100
 aaagctacgg tcatgggtcga aggagtaagg cggcaaatca gccagtggct ggatgtcgct 5160
 atccttgga tcttgggtga gatcacagag acgaaccgag ccgttcttga tggccaaaaa 5220
 tcccaggcat cggagaagag cggtttctgc gtcacgcca cgcttcaacg tgttggtgta 5280
 ggaggcttgg ccatggggcc ctggaattgt cttgaggatc tggttcactg gaccactgag 5340
 ttgagaatgt gggccaacct cgatgagcgt gtcaatgggc aaaccattgt agtcctgctc 5400
 acacatgggt cgtagtgctt gcgagaagag gactggactg accagggttct gcgcccagta 5460
 tccaccgtca agaacagtcg attcgtccag ctcttgctt gtgacggaac taaacatgcg 5520
 gatagatgaa ctaacgggct tggctttcag acccttgagc gctgcaatgt acttgctctc 5580
 tattaatttc atttggtgag agtgataggc agcacctggg gtaatcagct tgcgattgaa 5640
 aagcccttcc gtatccaaaa cctcctttat acgggtcaata gccgctacgt cacctgatac 5700
 agtgacactg gatgggctat tgaagcaagc aatgcgcatg cgtccaacat cagtacctag 5760
 cttgttgata tgctgctcgg caatatcggg cggtgacca acggctatca tagctcctgg 5820
 ggattgggtc tcagcaagga gttcactggc cagcttccca cggtagtatg atacacttat 5880
 ggcatctctg aaggaaagag cgctgcagc atatgctgcc ccgatttcgc cgctagaatg 5940
 gcctagtaca gccgaaggcg ataccccaa ttcgttcaga aggtcgacca gggccagttg 6000
 gatagccgtg cacattggct gagagaaagc tggctcgttc acccgagagt ccgctttggg 6060
 ccggcagagt tcgctgagaa gatcccacgt acagcccagc cttgacagct gttgacgtgc 6120
 acgtcaaga gagcgaacga aagagggata gcttttgagt agatcgcggc ccatctcggc 6180
 atattgcgcg ccctgaccgc taaatataag ggcaatgcga tgttgcccga atttctctcg 6240
 tctagtaata gtagaatgtg aggcagtgat tagctgtttg attaattcgt caagttctga 6300
 tgcgacaaaa atgacgcgat aagcatgaat agactgttta gctagggatg gggctagacg 6360
 agcgagcagg gcatcagggg taatggagtt tcggtgattg acgacaagat acctagccag 6420
 cctggcacac accctctggc aagctttttc gcttgccggc ctcccatga agactcgcg 6480
 tttctcggag tgatacgata actgcaggtg tctgcttaaa gacaaccgcc caaatgcaga 6540

gatggccaca tgagcagaat ctatattcga

6570

<210> 5856

<211> 2788

<212> DNA

<213> *Aspergillus nidulans*

<400> 5856

catatcagct tctctacgac aggggtggtat ttgagcttta cgcctcgcat gcctaattatt 60
cgtaaacag gctattgacc ccctaattctc accccgggct ccggagttac agaaggttgt 120
gggatgcttt ctactgaac tcgaaaccct tccccacgat tccccatcca atgggtctgct 180
ggcttggcgg ctggtcatca cgggggttttg tgcggtagct catgctcacc aacgtattat 240
cttagctcga ctgcgcatca ttcacaaaac ctggaggacg gacatctttc cccagaccgt 300
ggatttcctg cgtcgacttt ggggccttga tacagatgag ggtgctacgc caaacgaaga 360
tacccaaatt ccgaacctga atagccatag ctcaagcctt ttctcaggct ttatgttaca 420
gaatctcggg ttccaaccg ttctcgttta gcttgtgaaa gatatacttg actcatgaac 480
tcaacgactc gaggagatag ctatggtctt ttaactattg ccacactcga tccatccgtc 540
tccaccaggt acagccagtc ccagcttcgt tcgacccag cgtcatagct gtccaagtc 600
ttctgaatga gtcgactaca ggcgtccaca ttccctcgac agaacacctc caccttcatt 660
aagaactcct caatcacatt tctatcttcc tgtcttatac acgcatgcc aacaacgaag 720
actgggaata ggaggaactg ttgtatgcct gtcgttctaa tagacgaaa atgttccaag 780
caatgccgta ccaccgctg caccctttcg tcggcgacat tatccggata cagggttgaa 840
aaaagccaga tgaagcaagc ggcggtatac gagttagcaa gggcatggta atcagatgga 900
agctcgggtc caaccactct tggttccagt catcaaggtc ttttcatatg gcaacggcct 960
gagcgataat tgatgctgac gacgccacat cagctttcga gcgtagagcg gcagaacctc 1020
gttactgaca cctgagtgtc tgaatatagc tctccaattt gaaaatgata tatagctgta 1080
taattgtgca tgggtccgta agtttccaag aatatgatgg tagcggaaga actccatgaa 1140
aggetgctga attggcagaa cgtctgcac tgactctgca tggcaagcgc gccgggcctc 1200
cataagggag gttgaaacgt acctcgaccc tttcaaccaa cattgcatg acctattgct 1260
agcccccttct gaaatttcat agaggtatag cacacagcat ccagcaatca aggcttctgc 1320

ttcttgaat accccatcag gcgtcataaa ctgcttcaga cgattacaaa gagcatcaac 1380
 gcctcgcgaa agcgcggtgct ctatactttc tactagagca ttcttctcgg acacaagttt 1440
 ctctttcact gacatcggag gcaagggata gactagtact tgctgggtggg agtcgcgacg 1500
 acaggcaacg gacaacatgc gacgtaccca gacaaagcac agccacagg accacattct 1560
 gcatggccea cgaggattaac atogatatga aaaactcaga ctccgggtccc gccttctggc 1620
 gaggaagtc acgattctgt tccgtaggtc gcaccggtag tggggtatct gtggaggcgc 1680
 caagacaaaa gcgcggggta tgacggtgac aaagtggcag gcgaagcgta tctcgttggg 1740
 agttatacct gtcctttgga ggggtgtgatg atatgaccg caagagccgt aaggaattgc 1800
 atgtactcgt ttgaagcacc tataaatcat aatgggtggcc agtagtgctt cgattgtttg 1860
 aggaggtgga ggtaaacagg gccaggcgtc taaagagaaa cgaagaatga gtatggatgg 1920
 aagtggcact ctgcggttct ctgccagcaa aaacaacagc aagtacatgc attcgaagtt 1980
 gccattctgt atattgtcta aacactgtga atcctgatcc cagagagcct tgcgaagtt 2040
 gaatatggaa tgatacggct ttaactacag ggtccttcca tttataccct ctccctccag 2100
 ggggcatacc ttgcacgatg atcatgcgag ttgtatttaa ttctatatga ccagttttaa 2160
 tgtaagttgt tagtaatgaa ccgtacgcta tcagtgcgcc gccgcaaacc aggtaaattt 2220
 ctctagccca atcgtcgagc acagtgaggt aggaagttag aatgtggggg gatcacaatg 2280
 gagtcaactgc tgccctgccag ttccaaatta gttgctctgt tttgaataac acctagccgg 2340
 gccaaagcgc gtatcattac atatgagtta atataatac tagggctttg gctcaagctc 2400
 tagcaggcca cgtcaaaaac tgctagacct atagggtat attaagcttc acgctaacca 2460
 ttcccggcga gataatagcc gcgcctccac attgctccac tccgatccat ggcacgggccc 2520
 acatggtgct gacaacgggg tgtattcgga atttctagct tgccaggaag ttagtattaa 2580
 agcactagct gcgaattctt aaaggttcaa aacctctca ggatcctttt ctgacagcat 2640
 acctcgaatt ctaacgtatt tcaaagcaga gccagcaaca tgataactaa tatcaatgaa 2700
 gaggataata ttgcgtgcat ggagcgcggt gagctctact acgcttttac gccgcgcctc 2760
 gttgagcggc gaagggtgtg cacgagta 2788

<210> 5857
 <211> 4285
 <212> DNA

<213> Aspergillus nidulans

<400> 5857

tctctaggct ctctcgtaat aggaagtatg gccacttctc ttgggattag acctataggc 60
gaagccgcaa aaccgcgcatc ttgttagcca gaatatcagt cctttgtact tcaatctgtt 120
gcagctcaac caagtggacg agtttggcaa ccagaaatgc aacaaggagc ttctgcttag 180
agcgttctac tagttaaaat tgcggcttga cctaacagat actgaaagct tcaacctgaa 240
aggttgaact ccggtgcaga ccaaagaca ccttgaccat cggcgtgatg taaattttcc 300
acaatacctg gctattatca agcaaacggc ctcgtaactg agatatagat ccattttttg 360
ccttttctgc caggggtgtg gaatgaatct ctaaacctga gtttctgact acattcatga 420
cgagtaatat ccactatttg agagtgtacc agcggacaaa gtcgtaggtg ttttcttgcg 480
tatggtccca atcatcgga gcaccgagtc tcgattatca cagatatatg tatagtttac 540
actggccatg aaccggtttc caaattgggt agtaccatag ctcttgcatg gataactatc 600
ctgatgtgcc tcccacataa ttacaccagt aacgacgcaa tccctgccat tcttccctc 660
ttccagatgc cgacggggca tcacaaccaa gtagcggtcg aataacattt gaccttaatg 720
aatgtacttt ggatcagccc aagatattat ctcccctcaa tcaactagtt aactgcctaa 780
ccacaccact tggatcatatt gcacatcgtc tcccctaaat ctaccacag taggccccat 840
tgctcttagt atcttcatcc cactcgcttg gacacggatg aaacacattc gtcaatggcg 900
cataccctc tgactgtaca acgaagtagc tcgagtcctg catatctgtg ctcacgggaa 960
gtgtccaggt ccacgtatat ccattgcgcg tggccggcg cgaccaata gcagtccacg 1020
cccaagggtg attcacttca ccttctgcg gctcaggacc gctgtatctg tataggactt 1080
ggttctcaac catgtagtgc gcgcagacga agtcgtctat gttaaagttg atgggccacg 1140
cgggcataat gcaattcgtg tctgggtcag ttaggtagac gtgcattaaa gcgtgaggaa 1200
caagaaaatc tgcggagatc gttgtcgagc cggctagggt agtggctcta atgtttgtca 1260
ccgcttggtc acccggtaga ctgtctgtt gggctgagac agaggcgaa tttcctgtca 1320
tgatgcggtt ttctccaatt acgcgcacgg tgaacgagga gcgagatccg ggactaatgt 1380
tgccaattgt gacgtggtcc attgtaccag ggagacgggc cacttccctt ccatcacaga 1440
agaccgcgta tgcatagggt cgacgtcgac tagatatatt ccaccttagt ttcacagatg 1500

aatagtcaga atccgtaact gtaagtgc at taagcgggaa tgcagcgcg gcgttggtgt 1560
caaacgggga cggactagca attgccagcg taccaccctg gacagcggtc atgagagctg 1620
acatgtaggc ttcgttgggc aggggtgctg aggggtttgg aagggtgtcg tcggttatat 1680
gaataaaacc tgccccacgc tctgagagta agttggcgac cctggctgct tctgcttgcg 1740
ggacgccgta gataatatgc cacagcttcc gtgggtctgt gggcgctcag cccgggtttg 1800
ggacatagct gtttatgtat acgtcgaagc tttgttcaaa ggcatgagc gtatcagcac 1860
tgcaagatgt cagttattgt ccaagaagac ccgtaagaaa cgcacctatt ctcaaaacac 1920
tgcggtattg tgcggccggc attcagcacc gtgaaagcat ttgaatattt ccgcttcgta 1980
ttatcactga gaaaccgata cagatccgca tattcggtat tagaccgca aatgttcaat 2040
gcctcgtaaa agaagatacc accgatcttc ccagggtaca atgcgtacca cagatcaaca 2100
tctgcttcga tctgcgcgac ccaatcggca atttcggtcg aaccaaggcg ggtctcgaat 2160
ctttgctgac tttgacctag atatcctgtt ctgacatatc caataattcg ttttccggaa 2220
gcagaggctc tggtgatgac atctgccag gcttcattca ccgttggtgc ggggccatta 2280
aggacgttag cgataagaac actgacaatg tttgaggat agccaattat gcggttccag 2340
gcggcggggc ctgctagggg gtgtatgtat gacgctaggg caatctgctc tgaatatgag 2400
gttttatatt agttttccct gtccttcggg gctctagcga atgatactta cggccgtttg 2460
ctgcagttga gcttcctcca ggcacataag ccttagagtt aacattcccc aactggtatt 2520
ccgttccaat tccagccgag cagaagtcac tggcggcagg gttgcgtttg atataagaat 2580
tatcgaccgt ctcaaaaagt tctgtgcctt gttctagtag acacttggtg ttcgggctgg 2640
cattttcttg gacattccaa tgtccaattg gctttgcacg gcgtagctgg ttaatacagc 2700
aatagctggt aggcgaacca cagtttgctg gacatggcta ctgacgaagg ctgaagctga 2760
gaatgtagca agacagcgta gcatagcaac cgagcggcaa gtagcccgtt tgtaaccgat 2820
tcgtgggtatg ccatgatcgt atcgtagcac gtccatcaac tctatatcca aacggccatc 2880
cacgaccatg agacttctgg ttctgattg ctactctcgc attttgcagg gctcaccaga 2940
tgagaagtcc aagcggtagg gaccaccca taatcgtggt catatgcggc cattttgtac 3000
agcattttgc acatactagt gataggccgt ggttgcgcaa aggccgcttg ttggctcctt 3060
tcaagcgtgg ctttcaacca tcctatagtt agcgacaatc ttaattaaag agtctgctga 3120

gatgccaca attgccagtg aggatcaggt agttctcgtc aagggatagc taacgacctg 3180
agagtggccg tttagggttt tagcagtcaa gtggttccca gccgaaatcg taatataaac 3240
atcaccagcg tacttgctcc acataaaaca atagttagta tcaatgtaat caaaaaggat 3300
ggaggtctga ttcttgtcat caagctgcaa acatgagcgg ccacgcccta ccagtatata 3360
ccacgtgacc acagactgta cgaatcagtt gcgattccta gacgaataac ttgactgac 3420
acattcaatg ccgtgacaat gaaccgcga aaccagagtc aatgacggga acaaagtggg 3480
tgtcagtcac tgcagaccgt ggggtggagca ggaagtaggt atgaccaaac tgctctgcaa 3540
ccggttaatg accgtgtaca gtcgctttaa aatgggtgcaa tcctcttctc gttgatgtcg 3600
aactagaagg acaggctaag tatccctgga atggcacgtc atctcttcca agcacatggt 3660
tgggtggcgt ctgttgcaac gcgatcatct agtcgtctca gatccagtgc aacgtctctg 3720
tccgcccgcg gtagcaccat ggctgccacg cccctaccac taacaacggg tcagtacgtt 3780
ccttttaaag ttgtcaaat caggaaaata tacttcgtgc accattcctc gtatctgtcg 3840
aagtctatgt ccccgcggtt aatccattgc acgcatccct ggtcagctgt tctattcaat 3900
ctcattaacc cgcttctatc tctatttctc accagtcctt gcatttctag tctatgtgac 3960
tgactatgc atgtagacta gtttctcctg cacgtctgta gccaatggct tgagaatgcc 4020
tgctcccgtc cagcaaagta ggcatgcgat gcacaaaatg agaaagcgga gatgtcatag 4080
agcatatcac gccgcaccta gagagtcaat gctgcagcca acccttaagt cccctgaggg 4140
caatgacatt gacagcaaaa gccgctctcc acaataaacc tctgttctca gtacccttag 4200
cccttcgcca cgagagcaaa caaactcccc agtcacgctc aggcgccagc gcgtctcaga 4260
aggacggcat atccatataa ggcat 4285

<210> 5858
<211> 9705
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 5858

aacatgagca agtcgcggcc gcataatagc actcactata gggatcgtgc gaagtattgg 60
tcgctggagc aacggcatcc cgacagaaaa cagtctttat aatgcttctc tcgatattat 120
cgctaaaagc gaacactttg tctacctgga gcaacaattc ttcatcagct ccacgggcga 180

cgaggctcgag gcagctctgga accgggtggc agaagcattc gttgagcgca ttttgcgcgc 240
 cgcgcgcgaa aggaagcggg acaaggttat tgttgtcttg cctgcattgc ctgcattccc 300
 aggagacatc cacgcccagt tcgcagggga gctgccacgg gcgctcatga agctgcagtt 360
 tgattccatc aaccgaagcg gcctcagtct cttggaaaga gtcaaaaagg caggggtgaa 420
 tcctgatgat tatatccggg tcttcaattt gaggagctat gatcgctgc gggcccgtaac 480
 tagtaattgg gttgatgacc tgatccatcc gctcgggctt catgcaaaca ttgagactgg 540
 agctccgaaa gcgccagatg ccatcactga cgtgcaaacg cccggcaagg atgcgcagct 600
 gtctcccggg ctctgggata cagtcagctc ctgttatatg ctcgacgggc cagatatccg 660
 aaacgtcctc tggccagatg gcgcgtgttt cgcagaaatg gagggctttg tgcaggagca 720
 ggtatatgtc cacagcaagc tcttgatcgc ggatgacagg gtagtccttt gtggctctgc 780
 caatttgaat gaccgttcac tcaagggaag ccgggattca gagatcgag tcgtgatcga 840
 ggatagaact ccgctgccat caactatgca tgatcagccc tttgaagcca gtaaatttgc 900
 tgcaacattt cgccgggtacc tctttcgaaa gcactctgggt cttctgttcc cgcaaaacat 960
 gcgccggcca gatggccatt ttatgcctgc gccggtacct cttgactatg actacgggtc 1020
 tccggaagac cttctcgtgg cggatccact aagcgatagt ttctctgcct tttggaatca 1080
 ggttgcacgc cggaacactc tggcctttcg aaaagtgttt gacccattc cggatgataa 1140
 ggagaagacc tgggaggact atgaccgtgt agccgaaaga gcccgccgcg ggcattgtgc 1200
 attggaccac ttttccagca gtaaacaggc tattcttggg gtgaaggatg agctctcgac 1260
 catcaggggg acgttagttg agatgccgat ggactttttg atgaatagta acattcaacc 1320
 cgacgacgca gtctttaata tgtacaccag gtcgggatac acttagagca tagccagact 1380
 cttgataggg agcaacgatg ggcgatatta ttgattatcg ttgtgtaaga ttcatatagc 1440
 tcggtgacta gctatactgt accaccaatg agtgactata aacgatgtgc cagaattgca 1500
 gctggcatag tcaaaagaaa tattttcgaa gcggagatgg aatgcgcatg ccagtactta 1560
 cagctagcca ccagcttct ataggcgctc ctcagctgag cttagattgg catgaggctc 1620
 ggatgtaaga cattatctta tgactgggtt ctccagctac aacgaagcga tgaccattgg 1680
 agatcgacca cgaaagtcca aaaaggatcg cttggacatt ctagttgcat gatcaagaag 1740
 gtcttacgca ccaatcatcg ccgctagatc gcacttttca agcattgccg ttagcttcgg 1800

ctcgatggtc taagttccaa taggaatggc tgccgattaa taataggaat ggctatgggc 1860
 cgacgggata ggcgcggttt cctgccatat cgtacgtaca tcttggctat gaccggaata 1920
 atgtaacggg atggcgacaga tttcctgtca tatcgtatgt cttgaattca tagtggtgaa 1980
 gtttactgat gatccagtgt gatatcgtca cttagcgctg gcattcgttc aagacacagg 2040
 agaggagacg tccatatacg gggatgcgcg catggccaca tgtatatagt cgtctggacc 2100
 tagtcgattc aaaccccagc ccgatattcc taaaaagacc agcgcgcaat tcctctcaga 2160
 tggatatcaac catgtgcggc tgctgcctg agtccgattt tagtccttta tcgacgcaga 2220
 aacctaacca ctatcacatc gcaacgcacc actgccgtcg cagcgccatc ggccaagccg 2280
 agggcgccat agcaggatc actcgtatt ccgatggacg acctaccgg ttctcgttct 2340
 ggtgaccttt cagtcgtgcc cttcaagtcc agatccccc gacatgggcg gaaatccgcg 2400
 tacgggcgtc aaaaagtttt ggatctactt tctctccaac gacgggccag cggtggaag 2460
 ggaaggttca gctgggattt tcacggatga tggacactcg gtgaccttca ggtggacggc 2520
 aattgagata acgggagggc atgatccaca gtagtgcagt aggaggtcca actagtctca 2580
 gacatgatcg cgtaggctaa tattgcttcc catgatattt acacattcaa attcaagctg 2640
 cctttttgct ctttttgctc tattttattt tgtcttatct gtctttcttg gttggttttt 2700
 tcttttgccc ttttatttgt ccttcttttt ttcccttttt tttttctttt attttctctt 2760
 gattccacgt gatagaaatg tagtctatgg agcttcagcg agagagcaga accctttcag 2820
 tatacctgcc ataatccatc attagtgaat atcgtcagtt gctgcctcgg tatgccaatg 2880
 cgggataacc cggggctgtc caggggtgtc agcgaatcgg gtagacgttg cgctcaaagc 2940
 tcaagcggct aatcagcaac gaccagaat tagtgcagag aggaagtcac ggggagggta 3000
 tatggattcg cctgtactcg cggcctatca cacaacaatc cagtacatga cagccgggga 3060
 ggcgctccct ctttcgtga aacgagcaag tcagcacctg cgccatcgcc atatcttgcc 3120
 gcctaaagat gacgtcgagc gatggtacag agtcctgag agcatcgga accagaatcc 3180
 gtagaaacgg cctgtttggg cgcgatctgc ccgatcctac cccatggggc ctctgctcc 3240
 actcgactcc atccggcgga gtccgtccgc tggatcgcg gggttggtct ggagcagttc 3300
 aatggcatcg ttattagcac gttgatggat gcttgaggtt ggatatcatc ggacagcaag 3360
 agcagctcct gtgcatcgga agcgcagact gcatggcagt cgatcgcgcc caccgcagtc 3420

gaaaggactc gaaacagggc agagtgtact attccgtatc tggttagtgt aactgaagca 3480
 tacggcttcg aaccaatcag aatattcgca tcattggaga cgcgcaagat ccgctcccat 3540
 tggactgccc cagagtcttc tgccagcttc tatgcgacgg tcccatcccc tggccagcat 3600
 tcagactgcc gtcgacgggc tttgaccggc acggccggtc tgcctgagag gcagcccttg 3660
 ccgtgggacc gtcggcctgg cccggcctaa attcgggctc tcgtcccttc cctgctgggt 3720
 ttctgggttt tgagaccagt ccaataggcc tgtactgctc ctcaaacttc agtttctccc 3780
 atcaccatgg ccgacaaggt ccaagccgac gagccccaga tacagcccgga gtcctcaatc 3840
 ccagatagcc ggtcctctct caagggagac gccaccatg ccgaagtatc ccgacaacca 3900
 tacggcccc cgggtcttcg ggggtgtagtc gccaatcctt ttgtactgct ctgcgcggca 3960
 tgctcaaccc gtgggtgacc tccttccttg tcccaacttg taactccaag cggtaacag 4020
 caagatgggg gggaaagtcg gaggggtgtc gttcgggtac gatcagggtg tgatctcagt 4080
 caccctggtc atggaacagt ttctgggccc gttcgtggag gttgccgagg gccatccggg 4140
 atcagggttc tggaagggtc tgatgacggc aatgttgaa ttgggtgctt ttgttggcgc 4200
 gctcaatcag ggctggctcg ctgataagat ctctcgacgg tactcgatcg ttgtggctgt 4260
 ggctatcttt aatgtcgggt ccgtgctgca gactgccgcc gtggactatg cgatgcttac 4320
 cgtcggacgc acaattggcg gtattggcat cggtatgctg tccatgggtg cgcgcgtcta 4380
 tatctcagag gtctcgccgc ccgagtgtcg aggcgcgctg ctcgctcttg aggagttctg 4440
 tatcgtgctc gggatcgta ttgcgtactg gatcacgtac gggacacggg tcatggccgg 4500
 cgagtgggcg tggagacttc ctttctctgct gcagatcgtg ccgagtttcg tcttgctggg 4560
 aggtgtcatt gtcctccgt tctcgccctg ttggctcgcg tccaagggcc ggaatgacga 4620
 ggcgcttcag agcctgagcc agctgcgccg gctgccgacc accgaccacc gtatccaaca 4680
 agagctgctg gacatcaaga tcgatgtccg ctttcatcaa gagctgaacg ccgagaagca 4740
 cccgaccctt cagggtcctg ggacgacaaa gagcctgctt cgcgagctgg ccggttgggc 4800
 cgactgcttc aagagcgggt gctggcgacg caccaggtg gcagtccttg tgatgttttt 4860
 ccagcagttt gttggtatca acgcctcat ctactactcg cccacgctct tcaagaccat 4920
 gggctctgat tacgatatgc aattgctcat gtcgggtatc atcaacgtca cgcagctggg 4980
 tggcgtctgc accagtctct ggaccatgga cgcctcgccg cgtcggccgc tctgctctg 5040

gggtgctgcc atcatgggaa tttcccatgt cattattgca gccctcgtcg gtatctactc 5100
 agacaactgg cctgcgccacc gaacacgggg ctggaccagt gtcgcttttc tgtttgtgta 5160
 tatgctcgcc tttggcgcca cctggggatc agtaggctgg gcgctgccgg ctggtaagga 5220
 ccctttctct gatgctttca atagatagtc ctgacatgtc gcagaggtgt tctcttcatt 5280
 tctccgcgcc aaggggtgctg ctcttgcaac atgcggcacc tggctgttca actttatcat 5340
 cgtgagtcctc tcgccatttt tttttttttt ttgaccggga cgatggacta atggaaatag 5400
 ggccttatca cacctccctt gattcaagat acaggggatg gtgcgtacgt cttcttcgca 5460
 gtgttctgta tcctcgccct catctggacc ttcttctgcg tccctgagac aagcggccgc 5520
 accctggagc agatggacgc agtattcaag gacaactcaa tcagcgcgga gcgggcaagg 5580
 aggcaggcga tcgaaaatga gcttatggga gagcatcatg gcgttacagc atagacagta 5640
 gtctaaccat tttatgtata gcgaaacgta tgatatctag cattccaccc tgatcggtc 5700
 tagtctacga agatgccgag atatatttcg gaaagcccca agaactgacg cttggcactc 5760
 gggtcagttg cgtgtcctgc tttttttggg caatgccgat cgtcaccgcc gtacgaatcc 5820
 acctcgacgg cgtcaagggt gatagccggg agcggcacia agaccatcat acatggcggt 5880
 ctgggggggat aattcgagtc tacaccatac aatgacgtca aagcctgaga ggtgagaagt 5940
 taaagagaga aaaataaaag gaaaaatata atataatata attccaccca ttgtacactt 6000
 agacgcgata aaacaccttg accatgcgtt tgtcttgtgc tttggcagac tagcagccta 6060
 gcgttgctag tgctcaggct ccaaggctcc caggctcaaa cgcggttggc aatgtgtcat 6120
 gtgacttctt taccgaagct aatccgatgt cggttattat ccgtccctca tttgagaacc 6180
 tgtctcatte tgttgcttgg gataacgacc atattgccat attgaatttg ggtgttactt 6240
 tggattgccc acgttagttt aatggtaaac gtcattccatc tctacaagag gaagactgct 6300
 gtagccagac cggacatata gcaggaaagg aacgaaatat atattagata gccgacagct 6360
 ataacagatc tcatggacgg ttttccatgg aacgctgcag aagaacagag agcctaaact 6420
 gtggcaatag aataactcca gtttgagtat cacgaagatt attgcactag atgtggtttg 6480
 taccgatgcg aacccagga tgaccatgga ggcgcaatag aaatgggtcta tttgcgcggc 6540
 agttggcctg ttctctagaa gtgctgaatc taatactgct ctctgtaca gttcgtcagt 6600
 ggggagcgtg ccaattgtcg gtaacttgga ccgctttggt tcggaaagaa gtagagcgta 6660

gaaataaaat ggtggtagag aacaactggg gcaagtcggg agtgatgaag gcgagtatac 6720
 cgtgacgaac tagggaggtg tgacaaaaac ggagtcagaa tcactacatg gaactgatag 6780
 ctgacgacgt ttttaaagtc gactaagcag ccccttggct gctcttgggtg acgggattgt 6840
 cctggcagca caccatggcc ctgccatgg gctggaacct tgatcaatct agctagccct 6900
 catgagtatc agcagcccta gaacatgtca gcgagtaggg ggaaatttcg taaagtactc 6960
 ggagtacggc tatagattgc actcttggag ccgacaacct tggtgcgagt attaagccag 7020
 tgcttcataa tcgatttcta aaggccattc cagatcttca aaaccagcca gacgaactct 7080
 ggagcactac tcaacaatct cgaaccggga ccaagcggtc tcgggatgga tggaaaactg 7140
 cccagtacaa atggattcag ccggtatcaa ccgtgacgag tcagctcggc aagatgttat 7200
 aacaaatgat ggcaactcgtg agacggcggg aaatgtccga acgcccagac ctgaggattc 7260
 aagctagaaa acgaaaccgg gccgctcatc cactctgtct cagagttgag gtaaactccg 7320
 gttgacgccg ataccttgc cgggttcggg aatctccatg gggtagtggc cgagcacggc 7380
 gacacgagta ggagacctgg ggtaaggacg attggccttt gctcaagtac tgagaggttt 7440
 gtgtttggac aaaccgatgc aattgagagc gcccgagaaa catatttact ataactactg 7500
 agtcggcaag ccgtgcgaaa tacgaacatg gccgactcca agagccgttg tatccggccg 7560
 gcttagctca gcagctgagg caagccgtaa gggctaaatg caggtgagat tagtgctgc 7620
 gcgtagtcac atctcggtcg agagccaccg ctgcagcct gccgagagtg cctgactcac 7680
 taagccgtat gtactccata tggatatac caccggaac ttgccactta cgacattatc 7740
 cgggggagcc tgggaataat ctatggggag ccgaaccaat ctccagcttc tccagaatcc 7800
 aactttgtct ctccgcacga ttgacatttg acgagaaaaa cccgggatga acatgtccgg 7860
 atgatgtatg agatatgaaa tagagttgcg ccgggtctgg agatgcatag gttggcgcta 7920
 gattcgagag ctgcgctggc agcgttgcaa tgaccgggcc acatggttca atgtgggttag 7980
 ctcgatggag agctggggccg ctgctcgtgc aatcaggtac attacaattt taccgaggat 8040
 tccacaggaa aaaggaactc gggcgagagc caatcagtga gaggaattgg taatgacatc 8100
 ctgagtctca tggtcacaag gaattcttgg acgcttaact cggcctgctg ctggccgccg 8160
 gccgacagga ctcgggatcc cacagtttat gcttaaattg ttccacactc cagcgcagat 8220
 ggactggtac tggcgctcgg atccgtgcag ttcgagtttt gctcaagatc ctcaactcagc 8280

cctgtgccgg gatgtcttgc tgategtgtt ggcagacatc tgccaaggct cccaagcttt 8340
aagcgttttag ccagcagagg gtgccagatg gcagtcaagc cttgactcgg gatctgggca 8400
cgcggtgcag gtgccgatcc gagggctcgt acctcggatt ctggccgagc gcaagccacg 8460
ggaccacat ggcgcacata agatttcaca tccacgcggt tgagtgttgg catttgttga 8520
ggactgccag tcggagatct ctcaatcgcc cgaggatcgg ccgctcgtgg aatattcatt 8580
tctcaagttt ctgtgcacgg tcttggttcg ctgcatctag cgcagagcgt atgatgtaga 8640
cattacggtg tgttgcgcgt ggaaatgggt agaacgtaac gacgtgtcca gccggaccgt 8700
gactccggcc ctacgtcctc ccgatcaatt tcggaggcat gattcaggct tcagctcagg 8760
gttacggttg tcaaccggac atataatgtg cgggtgatct acgttgcgac ggtaccagct 8820
ggggtggtgc cccggctcca ttccgtcacc cgtccgctgt ttctcacaga gtgtctgaga 8880
ctcaggaccc aaaaaaaaaa ctgctcgcgt gatgagaaat tccttctcga cgaccctccc 8940
catcattccc ctcagtctca ccggctacgt ggggacgcag aaatggggtg aggggatgcc 9000
ctttagccct tcttctccac ggggtcgcgt ataagatgcc acagtccttc ccctccgata 9060
ttgtgccgtt cagaatttct ccagctccct ccctcttctc cgccgcctc agtcatagcc 9120
accatgtctg accgggttac taccatcttc ggcgccaggg ggaagctgct gcattccctc 9180
caggctcttg taattggagc gccggccttc gtcattctcg gttataacca ggccggcttg 9240
ggccctctcg cgactctcaa cagctgggtg gcaacattcc ctgatatcga taccgtccac 9300
accacgggcg tggagaagag cgaaaactcg accaagaagg gtgctgtcat tgccgccttc 9360
cagctcggag ctcttatcgg agccctttcc accacattct tctctgaccg atttggtcgc 9420
cgaatgtcca tcttcattgg tgcgattctc actatcatcg gacaggctct gcaggaggca 9480
tcatacagcc tgccctcagtt tgttgctggc cgtattatcc ttggtattgg cactgggtcaa 9540
gtcaacgttg ctgttccagt ctggcagagt gaatcgctcg cggccaagaa ccgcggccag 9600
catgttatca ttgatggaaa tgtcatgtgt ctccgttatg cccttngcaa ctggatcgat 9660
tntgggtctga gcccgatcga agagagcacg acgcattggc gcgtg 9705

<210> 5859
<211> 4385
<212> DNA
<213> *Aspergillus nidulans*

<400> 5859

aaagcactcc ccagaaaact gaaacttcgc ctactgccc acaaagtgg ctgtgcattg 60
gcagtgtagg ctctacaat acagtacatt accgaggcgc agtaccacca tcgctgccgc 120
cattgatacc gccatccctc gcgctgcgc agtcgatgt ctctctctc gtcagcggca 180
atggcacagt gcagggacgt cgctagatcc tcagaagtcg aacgactgag caatgcattg 240
tattaacggt caagcccaat caagattggg agaagagact ggaaaatatc gctcgtcgt 300
cccgtcgtcc cgtctgtggg ccgccgactg caagtgttt gcatatcctc ctctgtactc 360
agaggctccc cacaggccca caaactgcat tgtactgtat cgatccaagc gactgcgggt 420
tgggcgctg ctgatacaac ttccgcatca ctttggaat cgctccatct gacctcatgc 480
tgccgactc agcccttctg cctaccctg ctgtgctcgt tgagctgcgg gcagcgccgg 540
gaaagcaagt cttctcatga cctattattg tcctatccgg ttgactgacc ttggccacgt 600
tcaacttcag gcagtcgcgg tgttcgcat cagtcctctg tagcctctac ctatgactag 660
ggctcccgcg ttggctttca cagatcacga ggccgattat ctggagaaga ggggaatcct 720
ttccaatgat accatgaagc ccctccgcgg acctctgatt gcacgcgcct cctggagaag 780
gcgagctgcg acgtgcgtaa aaagcgatcc atggcaacgc cgaacacgta cggatgttga 840
tcagagatgg caaaggcctc tcagaggcct tcaccctttt tatgtttaca gttttgagac 900
tctaccctgc agctcgtgg tgcttactcg acgtaacgcc ccagcatcgg tagtgacaaa 960
attacgaagt gcgtccagcc ttcaacggag attcctgttc cagaaaagct ggagatgacc 1020
atgaacatgg cttagaccaa tgggtgacca tagcagggat gtcggatgta gcgtgcaagc 1080
cggctccttt tgacggcagc gaataagatg ctagaagcgg cttcttgctg cctttcaaac 1140
ccgttttagct caagagaata atggagaccg tgggtccttt acccttttct ccggtttccc 1200
tggaatcgtc ttactttctc cctaggactc atcatctctg ccctgaccag tttcgcttac 1260
cagggctgac cttactcaga cgtttcagga gaaaggagta tccccatcta gacacgcgtg 1320
catcttatct cgaccagtca gtctaggaga gagctacacg agggtttcgt tggcagacaa 1380
tccagatata tggcggatcc ttacaatact ctggagcgcc gaagctcgca caagccggac 1440
gcatacacia atccggattc tttgtgctgc gggagacatc tgattagtgc cctgggactc 1500
gtccagcagc gctccaattt ctgaatatgg agccttgagt ttatcgagtc cgagttcttc 1560

gtgcagtcag ttacatctcc gctctcctcc catttctttg gttctggccg atgcgcacat 1620
 tcctattgtg ttcaagtttt gttgtgcgag gggtcagaag gtgaaccatg gaacgggctc 1680
 ggatgggatt ttggacacaa tctatacagc aagtgtagcc ggatcaaccg cccgctgcgt 1740
 tcgcgacgat ccgatgagcg aataccggac cagcaagtca tggatcttgc ttgatgcagt 1800
 acaataatgg ctgcaataga taaccgggag tacctcggaa tgagagcctg ctgtttaaaa 1860
 ctcagccaca agcgcactgt tgtcaagaac actaccagct gaataccgct ccacagtggg 1920
 ggcaaatacgg gaaaggccat caataagatc gagcgggtga tggctctattc caaaaggcgt 1980
 tagcgagctc aagaactttt ttaacatcgg atgatcttcc acgatgtagt ggggtgagag 2040
 aagcacatat tcgactccat caattctgcg cttttggctc atcaattttc cataccagct 2100
 agtggtgaaa .cataccggagt actccttgta tgagccaccc aggtatagat catgcagcac 2160
 tatgtgggtct atactaaaaa ggaaaaaaaa atgccagat ggatggatgt atctgccgtc 2220
 ctccacaacc acgagtctga ccaagtggac caaacggggc ttagccgtca cgactcagtt 2280
 gaagatttgc ccgtcgacat catcattcct gtttcacaac tgaaggttgt caggttactc 2340
 tgcattcaca atggactttt tactggaggt caaagcaggc cattcaagtc ctaggctgtg 2400
 acagtgacag tgacactctc actttgtaaa cagagtacgg ttccaagggt ccaagttcta 2460
 tccggatccc ccgaatcagt cccgcacaag ccagcgcac tagacgctct ggtcgaacct 2520
 tcttgacctg tggccatggg gttttataga tagacaccgc catgtatgta agtaaggatg 2580
 taaaagacgt aatctcaata cgatgtctcc accgcgatga cttttctgga cacctgcac 2640
 tgcactgtct aagttccaac gctcgactca gcagaaaaag cgcagctgag atggtacggc 2700
 gagtccgggt tgcggccgac ccttgacctg tcccatagc tcggattccc actgcttgca 2760
 cgaaagtcgc cggatcctca cttaaaagca tggatctata tgcaccagggt tgggttgaag 2820
 ataaaaagac atcataaata ataaaatata gttgaagacc ggttttttat tttctgacct 2880
 aatcaatcct cgttttcgag tccgattatt acctattact actgtcagcg caggtttggt 2940
 tggctcaact gctgagtgc gagtgtgtga attggcattg cccctcccgt ctgccttact 3000
 cttcttcgtc tgctcgtctc gttcgtctac ttcttctctt ctcccatcat cggttttttc 3060
 tcttcttccc tcttttttcg gccgtctggc ctttttcttt ccttcatacg cttcgttctt 3120
 ttctactcca actattcttt gttttatagc attcgtctc gcgcacgctc gccacatcc 3180

taatccagac acccttccac tgttccggtt tgatcgactc tgagcctctg gaagagagat 3240
 atctagggaaa ccaccgaaac cactgtgggt gtggagatca ccccggaaga caagatcgct 3300
 gtgggcgact gccgcttgat gaacgttcta tgctattgac caactgctac tttttcattc 3360
 cttcttggcc atcatatcaa caggaataat gccgaccgtc ttactgccat catcggccgc 3420
 tgcttttgcg ccgcggtcgt cgctaactg ggtgctgaat tctcgatcg agccctggct 3480
 cacggccgcc ttgaaacgag taaaccgggt gaagcgacct ttgaataacg tcgcgagca 3540
 tacgaggtgt ctgaccgaga ctctttcgtc ggcgaacgcc atctggaatc tctgctcgat 3600
 gatgctgccc aaagctccgg agtccgatct gcgcaaggac gagaaccctc tcgtagaggc 3660
 catattcaac taccagatga ttcatattga agcatacgtg gtacatgttg atatggtatc 3720
 tcagaacgag gtcggttca aactcacgcc agagacgac gaggcgcttg tcgaacatca 3780
 caaggaggtc tactcgattg acgccgccgc taatacatgg gactgggctg agaaggacaa 3840
 tcagctgaag aagctgcagg aggaatttat ccaggcagcc aacaagtttg tttaccgcac 3900
 cagcgctcaa gctttttgag gggctaaagg aagatggccc gtgaaaactg cttggtggta 3960
 ggagtgagga ttcaaaaaag ccaatacttg gctctgttg ccccttga tccggcggcc 4020
 ttttggggaa ttggatgacc ttcgtttttc cccggggctt cccactttgc agggaccgag 4080
 acctgggggt aaactcgaag caaccaccgg ttttaatgga cttttgaaa gtctggcttc 4140
 cagcccagga tctagtacca cttgggattc caacctcaga aatggactct ggcctaagag 4200
 ttagcctgac cgcccagggg ttccacggtt actacaataa cggccttaat ttggccttat 4260
 cttatagtct tgaaaccctt gggagcatca accgtgaata tcaattggcc cttttgtact 4320
 tttcattgcc aaaagcgtgg gaccctgtt ctagggtcc cgctcttttt tagtggcccc 4380
 cctcc 4385

<210> 5860
 <211> 9287
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 5860

ctaggcttct tctccgattt ctctagctcg attgtgcgac gcatcatcgc gactgcgtca 60

gcaggattct cattcgcaact cgcccgcca aggcgccctaa cagacttctc tgccctcgcc 120

agacggccct ttcggacgag ccaccatgga gattccggcg caataaagag taggatcgcg 180

agaggagtag gaaacatcca ctggagtgc atgggcattc tggaatgatt gttaacatag 240

tgttcctcat tgggtgtttac aggagctgac gaacctgtac gcgctggagt cctgcttgga 300

ttggtagtga taagtgatcc cgccgacaat gatcgaccca atggcccaaa acatttgcaa 360

catttgcgtc gctggagctc tcaatctcat tggcacaatc tcagaacagt aggctggtgc 420

attggcgata aaaatgcccc acgggatacc ttccaggatc tgggacgca aaaacatccc 480

attgctgttc ccgaaataga agatgaagat gaatgcattc aagaacatga gagcgccaat 540

ggttgcccat cgataaccaa tccaactggt aatgggacct gcaagaaaga cgccaatgaa 600

ggcaccgatc ggtccgctac actggaatgc tgactgccat gaagcttcta taatataagc 660

ttggtccctt tcgctataga caccaaagtc atcggcgaat ttttgtgtgg ctatgaactg 720

tcccatcaag aaaacacagt acgactccat gatctatcg agcgtaggg aaatgatctg 780

ccgattgtgg gtagtataag agcttacaat ggtgcatgac atgacgaagg cccaccagct 840

ggctgcagga taggccttga cggcctcgag cacagtcatg tcaaattcga ccctctctgc 900

attgatggcg ccgctcctgt cgtagtcgac cttctcgtcg ctatcgtaga caggttcgcc 960

cttgagggtg ggctgcgcct cgacctcaa cgctgaggtc tgcttctctg tgttgctcgt 1020

actcatgttg acgatctctg agacgatctc ttagagatac gggtgagaa atgggtgatc 1080

gaaagagatg caggcacagc tgggggtttc agatctttat acgtgcgaca gcacgcttgt 1140

aatggttaacc cggggctagc ttaattaagt gaagcttact gcgggttttc cggcctcgac 1200

ctgtttaacc aaccatcatt ttcccggatt attatggtgg cactgtcaca ttcggcttgc 1260

catcgctcaa tcaagctttc ttaaatacac gtaggtgcat gtttttcccg agctgcccta 1320

gagtcaacgt gtaacggtat aatgtaaatc aactcatgct gggcttctgt caaacgaagt 1380

aatccgatac gtgtattcgg gaggagatgt gccggtcctc tcgggcatag tccccggag 1440

tgcttgcggg gacgctttcc tgtagttttg ctctctcggc taattccaga tgcacaggc 1500

aacccaagca cgatcagatt ggatgacatg gtgattacat taatactgat cgtaataacg 1560

agactatttc gctattatat ttccctgacga ctgttgacgg ctatcttttg cgcttcctct 1620

ggtgtcttgt gttggtaata taacttaaca attagttctt ttttttttct tttcgtatag 1680

gactgtgttt ataacaataa tctgaaacaa tcctaagggtt gaatatgtat acgtagagga 1740
tgctctcacg tgaaagatgg ctgggttatt acgacttcat ttgtaaggca ccaactaact 1800
tgtttttcca ggctggaatg atccttcgat atctgcagcc aattacttgg acatattgtg 1860
caaggggtcg gctcgttgtg gagcgactat gccagtcagt ttgagtctga gtccatttaa 1920
tccacgaata gaagaaagtt ccttcgggta tttccgagat ttagccctta tttccccgca 1980
gtgtcagttg tggggtgatt ttctgttggg tttcctcact cggttaattc cccattgtgc 2040
ggggccgggg taagggggaa tcgccaccag caccgtattg cgcgttctcc gcttcgtttt 2100
catccagaat cctgagaccc ggctagtga cgggtgaga accatagtat aacttcatga 2160
aatatcaggt tagctcctac caaatctgtt tagaaggga cactgggaa cctgattgag 2220
atatatagat ctgtccaatt tccaaatgaa cactgatgt ggcttttgca gttgcagcct 2280
tggtgaatt caaaagcttt tcgaaataaa cccgcagcta taaaatccat ttatggtgct 2340
tgagctcgat tggattctg cttctgtcat ataaccacg cttgcgagcg ataatatgcg 2400
gagagtccgc gaaggcctct cacgtatctg cggtgaccat cgtgatcagc acagtagcgt 2460
gggaaagacc ctggaagggc tgtgtcagat tgattggcct gggcaaagt aaccgggcta 2520
ttattctggc aaaatagatc ctgactgtat atcccatctc cgaacggctt ctggagctga 2580
aagataatgc ttctaattcc cgattcccca ataccctttt ctttctcttt ctcgctcctg 2640
agaacctgga gccatggagt taattcagta ttcgaccatc tgaaaacctg accagagtgg 2700
ttcagaaatg agccgtagcc ggggaaggga aatctcgagg cctctcagaa aagagcaagt 2760
caagaaacgt cggttgaata tagttgaatg aacctaaca atatggacaa gccacatggc 2820
tatccagcgc taatgatggc tggtcaaat catcgtaggc tactggctaa ttaagctagt 2880
taataatcgc cgactcttag actcggcct gtcaggtca aagccatcag ccacttttca 2940
agaaactttc tcagaaactt tcttatccaa agaagcttgg aggcgatct ctccaatgga 3000
ctaattgcat tccccccca gggtgggtgg gaagccgggg tgtaacccaa gaaaagccac 3060
gcgcagaaca gcgacagaag caagtgtgga tccggttaat tgcagcttgc ccaggttaac 3120
acgacaggtt aatatttgtc gagagacagc tgctggaggt tggagacaag acatgtatag 3180
ctctatactg acgtccacga gttgatgcc cctcgttgcc ggattctagt tcattctcga 3240
agctatattg tctaccttcc gtccattctg ataactatgt aaatgtgtac tcgctggccg 3300

tcttacgcc a cgtgatatcg cagcttgggc gcgatctcca acccttgggg gatctgaccc 3360
tcgtgtgtcg tacaatcgag aaatagcaag caagaaggga tctatcgta acgagataaa 3420
taatcaatcg tcatatggcg tccgattatt agtaggctac gttcgtgtag ttgatacagc 3480
ttctttcagc cctttttcca ttgagcaacc acaacaaca tttctagccc tgcaggctgt 3540
accacactta cactgagtgc acccttacag gttctgatct tcaatctaac cagctggtaa 3600
aggctctgac tttggactcg ccaccgttct gttacagtct aatcatggca gcgagtttac 3660
ctgcaacgga aactaggcac tctgaaagca gaaaataaag ctacagcta gaattagtag 3720
acaaatacat aggaatggct catgtagttt ttcagagata cctcaccagt cgtgcttttg 3780
atacgatttg atcgatccaa tccctgaact caatgtcgga cggtttttcc tcatataata 3840
ctccagcgtc gccctgatcc cggaaccaa tctctctgcc ttgacaagac attacctaga 3900
gacgtagaca ccgcaacgag aagcaatctt gcaaataagg gcagaccagt cgaagcagcc 3960
cgcatcgctt cctcagccac ccgaaagtgg tctctctcac gctactttgg gtggcatag 4020
acacgaccac tgggtccaca acgtgttgaa tgctcatttt ttcagcatta gccaggtygt 4080
gccaatgaac gtccggaata agatttatga atagaataat atcaggatca ctgttcagcc 4140
gcggttaagat aagacgctag atacctagtt taggtatcct caagtagcgg ctcccgtgc 4200
agatctttat tccattctcg aagccatatt tgtctgctta tctaccatcc gttttgttta 4260
atgaattcaa attagagtgc cagtagaaac ccacgtctct gatggattat aagaattctg 4320
gttgaaactgc ctacgcgtaa gctgattgat tgctgctggc atatcctggg cgatatcta 4380
gggtaaaatg gacaatacct tttgggtcaa cgttcagctc aacctatgcg ctagtatagg 4440
cctgactgct cgaccaaagg gtataatata actaatcaga ataactactg cattagcggc 4500
ctgtatagca gcgaaggcta tgccctggccc cttatcctgg agttctagcc catgacattc 4560
tgctatgtac ttgcgggaac gttctggctg tcaaaccagc cattaaatgt gtcgcaggat 4620
acagttactg atacggaaat gttatctata tgcgatgtgc ttgttggccg ttacgccgcg 4680
tgatttaacg gcctcttttc caacctgag gatctgatcc ttcaatgtat tgtagtaatc 4740
gagatagggc aagcaagaag cgatttatcg tcaacaagtt agtgatcatt cgtcatatgg 4800
cgtccgatcc tttgtaggct acgttcatgt aattgatata gtttctgcc ctttccccctt 4860
tgtgcatcca caacagggtc tattatagac aagccgcgca tgggtgttggc tcattttccc 4920

gtacaaagtg ccggaatggg gaacaccagc gactatgcac ccgatgctca tcaatctcgt 4980
 ggcgctggaa tgacaatcta ttcaataggt cgcttcgcac cagttcagct cttcctcaga 5040
 cgaacggcat caaagtggcg cgcgacacag ccgcaggata ttccaagagt tttcttggca 5100
 ttggactagc tgctagtcac ttgatcatgg gtacgaggtg gtgtcagagt tttttatgcc 5160
 cttgacgtag tttgctagcc ttctctctg ttctctactt cctcctcttt ataatataga 5220
 tagtctgctt ctcagtgcga ttaggatgtt cctaatacgt gccttccgca tcctcaaaga 5280
 cgccatctta tctactctcc cgctccacac tcgcctccgc ctgttactac tccaacccat 5340
 cagcttaatc acatatacca tcgaatggta tgtttccgc cagttcccg atacaagtga 5400
 gattcagatc cctctcaaac gccgagccgg ctctgtccga gccgttgtct acaccctaa 5460
 atcctcacca tcgctgcccc ccagaaagaa acgtcccata catcttaaca ttcacggagg 5520
 agcgttcctt gggggccttc cagaaggtaa tgcgcgcttc tggtcggaa tagcagagaa 5580
 gaccggagca gtcgtgattt ccagctcgta ccggtacgcc ccgcgacatg tcttccccgc 5640
 tgcgcacgag gacgtgcaag atgttgcaag ctttctcttg gagaatgcgg agaaaatctg 5700
 gaatgccgat tctgaactat tcaactgtag cgggttttcc gttggaggaa atctggcgct 5760
 tgctgttgca cagagtgtag caaggacacc gcatgctgtt aagggcagtg ttgggttttg 5820
 tccagttgta tgaccctac tatactggag agatatatgc gagccagcga cggactgata 5880
 tcggagctag gggacttccg actcccaccc gggctaaagc ccaagccctc ggaattccca 5940
 gcggtagatc ctttgttttt cctacagcca ctttctgacg cttatgctgg gccaaacagg 6000
 cggcagaata tgaagaatcc gatgctgcac cctatcctgg ctgatatcca atctttaccg 6060
 cagaacatgt tctttattat tgcaggtgcg gacatcctcc tgcaggagtc gcaaggcatg 6120
 gtacagaaac tagaggagga ggcaaggga attaactctg caatgggtct ccctgaggag 6180
 cctaagggtcc cgaatgggcg gtctatttgt gttcggaaata ttaaatttga gggacaattg 6240
 cacgggtggt tagaatgtga gttcccgta tcgttatatc cctccttggg acgctaaata 6300
 ttggtagtgc catcttctat tattgatgtc agcacacgca ctcgggcatt tgggtgaaaca 6360
 attatattcc ttgcgacat ccaccgggca tatgggtata actggcctct ctagtcttg 6420
 cagcttgga cctcactaat caccctctt gtacgatacc caatatctca gctccagaat 6480
 gcattaacaa tcctgtgtaa ggtatctttg tgtaagggtta tgcaaatac atcaagaccc 6540

tccttgctct atccatgata acaaaggccg gcatgcaaaa acacttcctg gtaagataga 6600
 gccactggca gacggtgacc ttgccagtca tgacagacaa aaggtctgat caaggcgctg 6660
 tccagagcgc tgatcagata tgcagaagta cttgctcttc gccctgatct gcggcccca 6720
 gcggtagcag acaaacggca gagggacaca cgccaccgcg atgcggccga gcagcgtgct 6780
 ggcccaggga attcccagag cgccaaacat cgatttagcg aatagcggga acctaaagcc 6840
 acaaaagacc ggagcactga gctggccgca ttgacagggg ctgcgctgca agtcgcaaga 6900
 cctgttagca aagggcactc ctttccgcag tatgagacgg gaagaatcgc acttactagg 6960
 gaagatacat ataaaagagg taattcatga gctgctggaa ggtgcaaaac agcccgaatc 7020
 cggtagggcag tcctgacagg acgggcacaa tccagtggat gtcgagcgg ccgcctgacc 7080
 agccgagcca gaagatacgc accgcaaaag ctgcacttcc gaccatagcg ggggcagacg 7140
 tcattcgggc acgattaccc cgttgctcgc cttgagcttg cggtaatacgc ccggctaggt 7200
 caacatcgcg cagaccctcc cccgccgagc attcccagcg cgatgccgag ataggcgagc 7260
 cccgccactc ctgggtgaag ccatgaaccg tctcaaagac cattgggtag gctgtgagaa 7320
 cagatgtatg agcccgtaga tgaaggccaa atatacagaa atgagtccca cgagaggctc 7380
 ggtgaagagg aggcgaaagc gttgtgcgag gtaagtgcg atgagtgtgc gtccgtccac 7440
 gaccgttgca ttatgctggg aaggccagct tcagttgccg gtcacagggc gctgtgagca 7500
 ggcctttag gtgagcagca tgggtgcgta tgtctccttc aaaagcaccg cacagaggag 7560
 gaatcctgcg aagcccatta tgctgccgag ccaggccgta cagcgccaac cgaggctata 7620
 ctgacagatg aagccgcca cagaggcgcc caacatgggt ccttcaggat gttcatgctg 7680
 aagatacaag ttgcggggcc gcgggtcggt ccgtcaaaaa ggtcggcaaa ctcggcggcg 7740
 gcaatagtca tgggtgactc gggcaaaata cctgcccaga aatggcacag catgacggtc 7800
 tggacattcg tagccgctgt aacgcctaga gagaagatgg caaagcctag gatccccgaa 7860
 aagatgaccc ctgcagggcc tttctgctcg gagacctggg ccagaaaaac agcgtcgcta 7920
 ccttgtagga tactcggcac tcctgtgtca gtgcatcgat tgccgatgag aagagcgagg 7980
 agttgaagcc catagtgaag gtcgcaaacc ccaggctgac cgaaacgcgc agcctaagtg 8040
 gacgaccatt gattagcaca cacgcaccac gaagggcatt tggtgaagga aggctgcata 8100
 cttgaggggc aatggccagt taaaccgatg tgctggatca tctcggcctt caaactcgac 8160

cgtaccactg ggtacgccag cgactgacgg ccgattcact tttagagccg tgttagccgg 8220
 cctcggcgctc gacatcaggg agacaattta atactgctgc catgatcctt ctgtgtgctt 8280
 cggccggagc tgtgatgacg ctgttgatat acatatgagc atcactgtcc cactatacta 8340
 aacataaact tcacgttttg gtcggtaaata gagagcttcg gctaatacgca gcacttgctc 8400
 tccactggtc ggctaatacca aaggcttatg agctgtgaca gttctttcgt ctcttagctt 8460
 gtgctgactg aatgctgctg tgtgaatcct ctcaataact ctatgaatta tacttagggc 8520
 ggttcctcgt tagatcacca gatgattacc aggctcagggc gtgcccgtaa gatgctcact 8580
 actagggaga gtgcaatata aaggaattta gtttttaaaa ttattttgct agtcttgagc 8640
 ctctctatat ttcttttggt gctagcacag tccataccaa catggcaatg gcctttgccg 8700
 caagaatggc ttccggcatgg gcttcgtctg tcgcgggcgc ttccgcaaac gccggatggc 8760
 ggctggaata ttccggcaatg ttggaatctc aaagacgccg tggaagctga ggactttgtg 8820
 ggtgacattg cctgcatggg gaatcagctt acaggaatcc aatgccaacg gccatcaacc 8880
 taccataac tgtagacgtg atggctatcg taggctgtcg catcaggaca tggcgtccaa 8940
 gtgcttccat cccggccgtg tatatctcac agaaagtatc gttaatgaca ggtgctcgag 9000
 gccctgggtg accccagggc gtgggttctcg gtcttgatca tgttggtgag caacatcccc 9060
 aacgggggga tcagcaacgt atgtggccct ttctcttggt acctgacaat tctaggcgcc 9120
 cgtggctgac ttctctctag ttgcccga ttgtcgtcaa gcgatttgcc attaccacca 9180
 acgagacttt gttacatgat ngtcaccggg ttccaggggt ctttgtggtg accgcacatt 9240
 gaagctctat ttaacaatac gccacactct gatggaacct acacgctc 9287

<210> 5861
 <211> 5460
 <212> DNA
 <213> Aspergillus nidulans
 <400> 5861

catctttcat caccgggtccc tcttatagac atatgattcc ttatatatcg attgacattt 60
 aggaccctgt tctactgatg ttagattacc attcaagcat cctgccttca ttgtcttatg 120
 tagtgaaggc agaaaaatca tgattaccgt gaactccgta actaaataac tgcatgagca 180
 agatgacgaa ctaagacggg acaagcagct gtacgagcac attaataccc ttgaactgtg 240

tcgacgaaat atccaggccc ctctccttcg ccgaatagcg catgatacaa ttcaagatag 300
 cgatccctga. ggcgctccca tattggccgg ttcagccact tgctgtattc ccggtactgg 360
 tacatctcat cccagcagtc ggcacaaaaa tcacagccag ccatgttaac aacaaaatct 420
 cgcgcatctg gtgtatagtg aaccatcggg tcaagggagt ctccgcaagc cccaggagga 480
 aacgaattga agtaccgctg tggagcgaag ggcacactgc tgcgtatcca cggctggttt 540
 atatacaggt actcgagggc gtcttgctcc ttgtgttccc actgcatatg ccgctgctcg 600
 tacatcacag ggtcccacca tgtgtctagt agccgctctg agaatagaga tcggtgaaca 660
 aagaaggagc caagattgaa gccgccacag tcttgagaga gcagaagatg gattgagcct 720
 gggtcattgt caccaatggc cgagcgagat acttcatcaa ggtatggctg gggtggcgga 780
 tgtgtgatgt ttaggggatt gtactcgtta atgtcgcgat aaacaacctc atcaaggcga 840
 tcaaataagg tgcctcaag tgagtacgag ttttccatga tataagtgtt gaggtcgagc 900
 caccagaacc tatatactgt tagatgtcac caccctgtag gcttcttggg tcgcgtacca 960
 ttctgcgggt gggatattct tcatggtctc acgtaggata tcgactttct cccaccctc 1020
 acgccattca tgagagtagc gcttctttgc tagcatgtta acaacctcca gtttataccc 1080
 ccatcgttta gcatattctt tcttattcga gatactgttt cgctcaatag ccatttctct 1140
 tgcacctttc cactccatga ctccaccctc ggtattcgat tgaagtatta tcacaaactt 1200
 ctgtccgctc ccgaagatag accgcctgaa gagttcgaca aaggctagat atagcttagt 1260
 tagtgaccta aagccgaggg aggtcgagca gggcaactta cacgtccaga gaaatagata 1320
 cccaaacaac aagagaaaca aagcaaggaa gagccgtgat cttctacgcc gcaatgctgt 1380
 ccgcccacac cataatgaac gccagccgcg tccacgcta tatatggagt catctttctc 1440
 agtgactcc ttcggaggcc gagaccacat attgaacttt ggaagtgttt caatgatttg 1500
 acgcttgaag cgcaagaaga acccgctttt cctggtagaa aaggatggat aaccacggac 1560
 atcttcgctc tttgctttgg cgactagcca tgggtctaac ggattgggtg ggtagaggct 1620
 gatgtagggt gttgacctgc cactgcctga ggtaaatctg gggctagacc accctttccc 1680
 tggactgggg gaaggcgatc gaggcagaga catgggaagg agtcaagagc gacagtaatg 1740
 tgggaaagaa cggcagaatc caagccaacc ttcgctgaaa tggcgccgctc agatatcaaa 1800
 ggaccctgac ggctagaggc agacgagagg acaacaagg tggcgaggag agagagagtt 1860

aacaggatag tcaaggggta tatacagcga tgttgagcag tggtgagctt gagggagcga 1920
 ttagtatgaa cctaggaaga cttcatccag aaagacccgc aaaatactcg aggagttga 1980
 taagccagga agcaactaca catcgcaagc ttccctcaaa ccactcaacg gagaaggaag 2040
 ggattcatta attgagccaa gaaaagtcgc cggccatgtc gtagtcattt tgtgaacttg 2100
 gagagggctt gccgcgaacg gttgcatccc gcttcggca ctgaggggaag ggatttgaga 2160
 accacacagg atcaggggtcc aaggggtccag acaccagccc aggaacgagc tcaaggggtcc 2220
 acagcaatgg ctaggtcagg gtgttagcta ttcgggtcat ttacaagaat ggtgccgcat 2280
 tcttgacggc agactggatt tgtgattctg ctttctcggc agtaacgttg caggtaacac 2340
 cacgagggtca agaagaatca taccagacaa gtccttggtg actgcacccc gccacaaaat 2400
 aactttatca taagataaga catcgcgcg agtaggtagg tagatcttgc tggtggttga 2460
 cctacagatt gctgtgaggt gagagcagta tataatgcac ggtgcccttt ctttctgag 2520
 tcacatgaac aaacgcttaa gtatggctag tgggaccagt aagaagctag cctatcaata 2580
 tacatttcat taaagacatc gacaatattc tagatagact gatgagtata gatacaataa 2640
 atccccgagt cagatcccaa gtgttcccag ttctattaa tcagctttgt atgttgcggt 2700
 gtatctagtt tcgaggtgga catctccaaa agcggcagca gtctaaagca ccaataccta 2760
 cattctcatc ctaaagctca aaaaaagtc actttaaatc aaagtagccc aagtctcatc 2820
 attgagattt tgtcgaacaa aactattctt tcgaaatggc gttgcgcgc accggttgct 2880
 gattgactgc tgtgctctta gatgtcagga ctttgcgtac cacaaatcct ttctcattct 2940
 caggtcggtc gcgtgcgctg tctccatgat aaaactcgca cttgaatttc agaaacttgt 3000
 tgcggtgccg atataccgta atgatatcac cagtatacag cttgccaaaa tgaaagcctc 3060
 cttctggacc tttctggagt tcaacatcgt tcaccagat acacttgcg gtttctgttg 3120
 aaagatgggc cattgtccct gggatagtca tccagtcctg tccagaagca atacgttctt 3180
 ccagtcttgg agccccaaaa gtgatttcaa gagcgtaggc cggaatgcgc gcatccatgg 3240
 ggtcaggata acagatactt gcctgaggac cacggcccca agatgtcatt cggctctcca 3300
 gacggagggg aagatcaaag atagaccag gaagagtggg tagttttcct agtaggggtc 3360
 gagactcgcc tgggtgcggc aaggggtctca ggacccaac aggccacca gctctggaag 3420
 ggtctgcggg tggttgaaag ccccttgatt cagcataatc gggaatcagc tgtccgggtt 3480

tggcgtcgat ggtgttagca agttcgatgt caaaaatctc tggttcgcgc gtcaagttcc 3540
 tatattggcc atctgcatct cgcatattac tatcatccga gccagaacgt tcgctcgcag 3600
 tgtccggtaa gggcaactca attcgctcgt tgaatttggc agcttttggg gtcattgagag 3660
 aaccagcttg cggaaattct ttttgaactt tatcgtcagc aagcccatca tcctcactgg 3720
 gttgagggct tgctgcctcg gtggagagga gagggtttct ggaagtgccca gggtgccacg 3780
 agttcatgtt gagctgccgg acgagtttct cagcgcccag taagctaagt gccgatccag 3840
 caacgggggtt ttccgggagg gataggacgg agttgaggct accgccataa ctgatcatcg 3900
 actcaccggt agaagaaatg aaatcctgga cactgtgatg gtcattcctcg aatgcatcca 3960
 tgttgtcacc caaggcatgg gagctgcgta aagctgatga agttatttca ccgaagaggc 4020
 gcctcggagt ggcatgggat atttgctgat ggtcctggga aacctcaagt ttgggcagcg 4080
 acggataacg gacatctgga ggggggtgaat taatcctggg gcgttttgat tgggcaaggt 4140
 cgctgtcgtt ctcaagctaaa tcgtctccga aatccggatt ttcttcagg gatagttgag 4200
 aggcatctaa ctcatcctcg gcgacttcac cgatagcaga aagcccgctt gagtaattgg 4260
 acagtaagtc gtcattctcg tattcgtcaa tgtcggggat atcaactagc caagggtgtt 4320
 tgaggcactc cagctccttg ggacgaagct gagggtcacg gttcaacagc ttagatacca 4380
 agtcaatgcc ctctcggag acgccagctt cgcgagatct ctgatagtct ggttctgttg 4440
 tcataattgt tcgtaacatc tgtgctctc tgtcatcgcc tcggccggtg tatggaggaa 4500
 tgccagctag gaggtggtaa agaacagcac ccaaggagta catatccacg gattgatcat 4560
 atggggaggt ttccgggagc ctaatactta gtacagtatc caataacaca ccatggagta 4620
 acttacggat caccgacctt gcgtcgcttc ctacctccc cacgtcgata catatcgta 4680
 tcagggtaga cctctggagc gcagtagagg agagtccgc aaaaagtgtt gagaaacgtc 4740
 tcctcttgga caactttgga caggccaaaa tccgagagct tcactttcag tggctcatgg 4800
 gatgcgatca ggatattgtc cggtttgatg tcacgatgtg tgatttttcg cttatgaaga 4860
 tatttcagcg cgtggagtat ttgacgtgca attgttttca ccatatcctc aggaatgttg 4920
 accatgttct gtaaatcgt tgataattcg ccgcaaggga cgtactccat gatgatatag 4980
 atccagcgggt catgctcatg gtgatcaatg tactggacaa tgtttggtg tcgggtaata 5040
 ttagtcaagt ccttttgac tgtattatct caatcactta catgctttag atctttcatg 5100

atcttcaact cattatcaac tttttgattc aaaacaccat tcttcatgaa gtggcgtttg 5160
 tcgagttcct tggccgcaaa cacggctcca tgttgttttg tagccagctt ataaaccaca 5220
 gcaaatgcac cctttccaat ctggccggtg acattgtaag ttggggccacc cgaccaatgc 5280
 atċcgtgac tattccatgg cggaatgctg agggctgacg ggtgacgtct cccaggttgc 5340
 acagtgccag gggcgccacc atagactcgg ccaaggtaat tctgaagggtt cttggcatat 5400
 agatcggtaa accttctcta ttaggcaaac gcaccacgaa cttgacttcg ttcgtcgcgt 5460

<210> 5862
 <211> 3033
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 5862

cccagccttc tcgagaactc tcttactccc ttcattccca tcaaaaaact tctgcatcaa 60
 gtctcaccac atgcgcaaac tcatcccggc taaagatcca ccgcacaaac tcctccactg 120
 cttcagtggc aatccccctt cccagctact cttcgccac ccagtaccgc agtccatag 180
 agcagtgctg gatgtccgta cgtggcttga gacctatagc gccgataacg gtgttggttg 240
 attcaaggca aatgcagaag tctgtcgtgg ggctctggga catagtgaat gttatccaac 300
 tgcttgcgtc cgagtgtttg tatggagatg ggaacgcgtt gcgcatgtat tgtgcaattt 360
 tagggttggt agcatggcgc gcgagggatt ggatatcgga agtggtaggg gtgaaagggc 420
 ctgatatgac atgacgctca gcactaatca gctgactggt cacctattgc tcntatcac 480
 tgaactcgga ggcacgtagc agtctcttcc acaccgcat gaagccgctt atagaagcaa 540
 ggattaagac gcagcgcgag gccgtcgaca aggctgcgtc gcaggaaaac ctcaaggctc 600
 aggtaagatt tccagccggt ctcatcgaa tcgaacagtc taacgtcttt gcagggcagt 660
 ctcttgaca tgctcatcaa tgccgggctt cgcagcaaat ggccggtgga ggtcgagacg 720
 atgtggctgg cgtataggat cttcatgatc aactttcctg gagttcacac cagcggcatt 780
 tccgccacca gcgctctgct cgatatcttg agtttccta gcgaagaagg tctcattgac 840
 atgctccaag ccgaaatcca aaacattgcc gccagcagtt gtggtaaagt gactgctgcc 900
 gagctggtac aagcatcatt gcttgatagc gcgatcaaag agagtctccg gtttaacggc 960
 atcaacgctc tttctccac ccgaatggta tgctcttccc aatcttacca tgtacatcag 1020

ctaacactgc tccaggtcgt tgcaccagag ggtaccacgc tcctaacggt ctcttctctcc 1080
 catacggaac caagatcggc atcccgcaat acgccgtcca ccgcgacagc gacctatatac 1140
 ccaatcccga ccaatacaat ccttaccgtt tctatacacc gggtgccagc cccgctcagc 1200
 tgcgcgaaag ttcaatgacg aatacgagcg agtcctatgt cgtcttttgtt cacggccgccc 1260
 ggcaatgtcc cggccggtgg atcttcgccc acattttcaa gctcctaatac gccgagatgc 1320
 ttctcaaata cgaaataaag ccctttccta cacggcccaa aattcacctg aagtgtctca 1380
 aacctcggtt ttgggtcgtg gactaacctt gacaggatgg ggacgcttcc aactaccgcc 1440
 cctaacaacg aagctgactg tccgacgcag aaaagacact gcctaacctt tcctatacca 1500
 taatctttgc ctggacttaa ttcacagggc gatcttccgt tctctgtaat tatttctgtt 1560
 tgtattatat agcgatcgtt tggatagagg atatattaat ggcccccgcc tgccggagcc 1620
 gcgcgatgat accttgggtg gcaaaatgat caagttgact tgaatagtcc attgataagt 1680
 ggcatcaatt ggaaagcttt tgtgtctgat tatactcttt gtgcggcagt tgtaacctgt 1740
 tggctgatat atatatttcc gccctattgc agtaaaccag tctgaatgga cagcttggct 1800
 cttgagacaa gtaatctatt ttcttttacc atggcggctt gtttctctaa gtccatcgcc 1860
 atcttagcaa gtactactat gctgcagatg gtcactcact gcattactta gccataaatt 1920
 gtgcactctt gatggctcaa cttggcttcg ccaggctctca acccggttcc gaggcctccg 1980
 taatgttcta tatcaattgt ataaacgcgc tgcgatgat gatttgcata taggggtggc 2040
 ggtatggctc gcttcagtca ccagaatggc gctggatcac gttcggcatg atgtgatccg 2100
 gacggaatac gaggtcgccg aaaacggcgt cacagtacca tcctaaaacg gaaagacgta 2160
 gactaccaat gttgcgggtc gtgctgattg acaacacgaa agtgtcatgg agcacaattg 2220
 cagcactact tcatgccctt cgtatgccgg gaacctcgag gtggaggacg tccgtctca 2280
 ctagtgaggt gagatggcgg agacaaaggg ggatttccag gatctctggt attcaaataa 2340
 tctcatagta tgattgtctc ctgatcaata tatgcattgg agaactggag agcaaagagt 2400
 ataccgaatt cacaacagag tcaaatctaa aatggacttt cgacatacgg cggatatccct 2460
 gcctgggttc ctgcctggtt cagtgatcac gatgtcaagg gcattttcaa taaggcatga 2520
 gatagaagag aaacagtacc gaatgtgcag gagcgtcgag attgtagggt aatcaatat 2580
 atgaaacca gtctgccta atgagcggat gggacgtagc tatttgtgca aacctcatt 2640

cagggtgcaac cagtcaacat caatcgagtg tgctttgacc cgttcttggt cagctctata 2700
ctcaatgatg tttctgcaat aagagctatt gtgtctgaag tttctgcaag ctatctacct 2760
gaacagctgc ggccatcttt atccttgtca tggttgatga agaacggccg agttctgaac 2820
atgacggact cgtctaccaa tatagaagtt gatatatgtc gtgagctgca gagagttcaa 2880
taataatttt gcaaccagaa atagatgagt tttcgtcact ggggtgacta ctagtctatg 2940
tctcgattta tcaattgctg aaccaaaaaa ctgtactagg gcacggagtc cgactggggt 3000
gtcgggctct ataagacaag acaagcacgc agg 3033

<210> 5863
<211> 2200
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 5863

agaccgagtt ttcgcatgaa ctgtacggat actgagtcta tgagatacgc gtttcctttt 60
cagcatttat acttaacaca atatctttat atgtattctt agacatctat aacaaagaag 120
ctcaactatt taatctgac attgagcata ctccttgta aaagcacgcc caatcaccat 180
gcgtctaate tcgctcgcc cggtccaat ctcatacaac tttgcatccc ggagtagcct 240
ccctgcaggg atctcgttga tatatccgtt cccgcccatg agctggatcg catccagagc 300
acattcggta gccctctcgg ctgcgtagag aatcgcacgc gcgcagtcct gagtgcgaat 360
ggctgctgat ccagggagg catggctgtc gatgtggcgg gccgtcgcgt aggtataggc 420
gcgggacgca gcaagcttgg tatgcatatc cgcgagcttc ccctggatga gctgggttatg 480
agcaattggg gtcccaatt gtttgcaaac gtgggtgtac gggagaacga gatcaagggc 540
ggcttgcatg atcctaaatt gcttggttagc acggcctttg ccgaggttca tctctgcaga 600
ttgagatgca gtggaccac ccaagcggac cagcactgag aacaagccgc tccaaatcaa 660
gaccctccat caggaccttg acgcgcgggt ttacttcgcc tagcaagttc tctcttgga 720
cgaagacgtc ctggaagatg agctctccgg tatttgagcc ccgcatcccc agtttatcca 780
atctgcgggc gcatgaaaag cccttgaatg tcttctctac aacgaacgct gttatcccct 840
tggaaccttt ctggggctcg gttttggctt gtccgccatt gttatctgcg tcagggccct 900

gtgactcttg gctttgttcc ttttcggcgt ggcattggtat cttccttttg gaatcccatc 960
 ttgttcccgt aagaccacgc cgcatactt ttttggcgtt gttttatact gacgacgtcn 1020
 gaaccggccg agtgcttcga catagccaac gcaccgatct tctcgctga tagaaggcca 1080
 ggaagaaaac gcgctttctg ctctggcgtg ccgtttaagg agagttggtt cacgcatagc 1140
 tgtgagtgtg ctgcgtacga aagggaatg ctacctatag aatgatgggg tcgttaaaga 1200
 gggccaaatc caacatagaa caaatcaagt cgcatacctg aagcacggct aatctcctcc 1260
 ataacaacgc aatgggcttg gtagccatt ccaagccctc cgtactcttc atccgcggtg 1320
 acaccaagga agctagatag acattagaca cgcttcgaca agcgataccc aggattccaa 1380
 gtaatatcta ccagcattg ccagtttct tccacatctc agcagggaat tcattttgag 1440
 catctgttcg cgccgcgact tctcaggaa tctcacgttc tagcttagtg gttagaacgt 1500
 ccgcacgtt aaaacaccaa cagtggaaat cctacttgta aattcctgaa cgctctctcg 1560
 tagctccagc aaatcatctt cggtcggagg cacgaatccc cttgggtgct ttgttggtgc 1620
 caacgttcgt acgcacggga ttaagggctt agtgaatctc gcaggtgcc tggttggaag 1680
 ggagcggcgg attaggagtg gtaggcgtat ggttgccatt gtcgaaaggg ggtgtttgaa 1740
 gagctagaaa ttcgctgatg agtcggctga aactcaatg cctgcagaat gaaatatgta 1800
 gaatagctgg agacaaactg acccgagtaa gagcgaaggg tggggagcct tggggaaagt 1860
 ctgcggggag accgcggcta accgctggac acggacacat cggcaaccgt cgcactctcg 1920
 catctgcccg tccatccttg ttcactagt gcctggtaac cgtgatcacc accattttcc 1980
 ttccctattc ctcatcactg gttgcagtct actcgagttc tttttgacac caacttatat 2040
 cctatatacc ttgagaggcc atgctctagc cgaacaactc catcgatccc gccctttccc 2100
 cgcaatgcgt gtttcggttc cactccactc cattccgagg agttgcattt ccttaatagc 2160
 ccacgcttgt tcaagattaa cacctaacgg actttccttt 2200

<210> 5864
 <211> 5775
 <212> DNA
 <213> Aspergillus nidulans
 <400> 5864

tctacatgga agactggatg gatccctggg ggcgtattca gctgtacagc atgactgccc 60

accaggccta taacctcata cttgggtgttc ttccagtcaa gtttcttact gggtttggtcc 120
 gtacggatgt tcttcagact tagccagacc ttatctccta cttggtagtt tgtggccggg 180
 gctcctgtgt ttattagcct gattctctgt attctgttgg gaataggcca tggaggcttg 240
 agcccagtct agggcttccct taactttctg tacaatggct tcccctttct ggataggact 300
 cttggttggt tcttcagcta gatgctctac ctctcggta ggggtaaata ggctgaggtt 360
 gtacccatag cttagataga aggggctgac ccctgttgcg gttgatgtac agctattaat 420
 tgccagctct gcaagtagaa gtagcctgtt ctagtccttc tggtcatagc aggtatacat 480
 gcagaggtag gtttccacta tgctgttcat tctctctgtt gatctattag tctgaggatg 540
 ataggctgta gatagccggc ggttgatccc tgcagggta tatatgcagg cccatgtatt 600
 acttgtaaac tggcttcccc tgtccgaggt gatagccttt aggatcctgt atttgcttat 660
 aagtacttgt acaagtgcc c aggccacact ctgagagtca gtttctgata ttccttctag 720
 tatcacacct ttgggttaatc agtctgtgat aactatgata tttgtacaac ctttgctctc 780
 tggtaggtct ataataaaat ccattaaaac ctctgccag ggacgatcag gcacagggag 840
 gggctttaat agcccccttc tctgggtctct ccaagacttg gtccctccac atatatcaca 900
 gttccagatg aatcttctga tctctggga catattaggc cagaagtatt tacagctaac 960
 cagcaaatat atttgctctt agccaggatg tctgttaat atagagtcac gtacagcctg 1020
 aattatactt atatagagct gtttactatc aggacccac ctctcctat agaagaggat 1080
 atggctcttg gcgtccagct ggcattctga gattctgact ttcaattata ggtatagaag 1140
 aaatctcctt gctccatctt tcaggcacag tactgcttta ctatatcttt catcctgttt 1200
 aagtgcctcc ttctatatat cacttttttc atacagctcc catggttgct cttcagctgg 1260
 tcagaggggtg gcaactacca tcttcccaa gtatttttct gtaaaaagtt gcattataca 1320
 agacttgacc ctgtcatctt cattatcagg catgtcttgg tctctctatg aaagtacatc 1380
 agctctctga ttagctgacc ctttccata tactagcttg aagttgaacc agctgagaaa 1440
 taaggactat tgtatatggt gttctgttag ctctcttggg gagaagaagt actccagggt 1500
 tttatagtct gtaataactt ggaattctct atataagcac agttcagcat cccaggcttc 1560
 aagacattgt acaattgcaa gtagctcctt gtcatagatc tcatagttgc attcagctgg 1620
 agaattcctt ttagagaagt aggcacatgg gtgcaattcc ccttttttat tatattaaga 1680

gagaactcct cctgtattat aacctgagga gtcagtctct actactatat agtaggaagg 1740
gttgaagggt gctaggacag gtccagtaat aaacttttcc ttaagcagat caaagctatc 1800
ctgggtactcc ttagtctaca agaagggtgt cctttctttg tcaagttgtt cagtgggcgt 1860
atgatccctg agaagttagg gatgaacctt tggtagaagt tggcaaagcc caggaatcct 1920
cagacaccct ttataatagt aggggtttcc tattccttta ttgctttcac cttctccagg 1980
tctattttta ttcccttccc tgctgtatt ataaagccca agtactttgt ctcttgcac 2040
tcaaatttgc acttcttaat atccaaatat aggctgctt cttccagttt cttcaagact 2100
attcatacat acttccggtg ctggcggagg tccctattgg tatagacaag cacatcatca 2160
atataggctg agcagaattc atctagatat tcccggaggg tccagttaat atatttttgg 2220
aagggtgctg gtacattagc caacccaaaa ggggtaacta gccattcaaa gagcccatat 2280
cttgtacaga aggcagtcac ccattcctgg cctttggcta tgtagatctt atagaaggca 2340
gcagacacat ccagcttagt aaaccatctg gcttgtctaa tttagtttag tgtcttatgg 2400
atcaggggca atggatagca gtccttcttg gtaatagtat ttagagcaca gtagttgata 2460
cagaactgca gtcctcctcc tggtttttat acaaagagta ctggggctgc agctggggaa 2520
tggtcacgc agataaagcc tttctgtaat agttcagaga gtattttcta gaggactatt 2580
agttcttctt aggttatgtt gtaaaggggg cccagggga cttcaggatc cttcccactc 2640
tcctcctgta caagcttgat tttgtgatca atcctatetc cccagtgcag tagtagttct 2700
tctgctttgt cttgttcaaa gagccttagg tatttccagt attatcttgg tagctttgta 2760
cgggggtcaa tatgtctctt tggggccagt gccttctgta tatctgcaa taagactgca 2820
aatatcttaa tatcttggcc atggtacctt ttctttgta taaatcctcc catggttgca 2880
gcggatatct gtgctatgtt cagctttagt aagggcctct ttgtagtact ccatagacag 2940
actccagtag tacagaggta cagcctgccc ctcttagcct ctaaccttct attatgttgc 3000
tccagccagg ggagtcccaa gattaagtca tagcccagg ttcaggtat tacatagaag 3060
taggctcctt tttctgtatg cgccctgata tctagctgaa cctgtataat cttattaatc 3120
tcctctatat tcccagtcac tcccttgaag ggtttcgggt ggataggtat ggtaggtatt 3180
taatgtatct tgacaaactt gtcactgatt acccatagg tcaggcagcc tgtatctatc 3240
attgtacgag cattatagat atggttgact agtgcctcca ccaagaatag gggggtattc 3300

atgcgcgagc tgttgaaatc ttgccaatca agtagtattt ctctagctgt ataaccctc 3360
 tgtacacgac tttgcacaga ggttatttgt tttccgactc gctctcactg tagtcatcca 3420
 tttggtcttg ttcttctga actgtggcca cctgcctagg gcgcctggta ggtttttag 3480
 ggcaactcttg tataaagtgg tcaggatcac cgcagcatag gcatttgccc tcagacaacc 3540
 tcttttgctt ctctctgca ggtgcctgac tagcttttct tggggctctg gtccctttcg 3600
 tacggagggc cgcgacttcc tttttaggg ctgcaatttg agcatgggtg gcttcccagt 3660
 ctatttgatc aggggtcccg gtccggtcag agcctcctgc tgggtcttga caagcaatat 3720
 gtgtggggac agcagcgcga gatcctttc atgtaagcct ggccactctc tggaggttgt 3780
 ggttgatttc gcgcagttga ttacagtagt tgtcgtatga atcctcctgc ctaataccaa 3840
 ccatggcttt tagcaactca acatttaattg ccgtgtccaa caaggccttc ttctggttat 3900
 catcccaatt aatccctcca gcattaagaa gttcttcgtc aaatttattc aagaactctt 3960
 caaagtcaca tttcccttgc ttcatgtat tcactcgtac aagagccttt ctctgttggt 4020
 cagggtcacc aaaggccttg tctagtaccg cggagaattc tgcccatagc acgggagtct 4080
 cagatttctg gcgagccaag agccatggta gtacacgctg gctggctttt cctctcaggc 4140
 agctgtaggc atagtaaact tgttctcct ctgtagggtg gcaggcggcg ttgattgcaa 4200
 acttcgtacg aaggttcatc tggaaaggag ggtagtcctt agggctcttct ccagtaaagg 4260
 gttcgacatc cgggtgacga ggacgggat agcttcgttc gtagggggtg ggcgttgccg 4320
 atgtaactgt agtggttaact ggtggatggt ttctcagttg cgagttctgt acggcctgta 4380
 gttccgcccg taagctgtta ttctcttctt ggagctgttg tttctgagtc cgcactctctg 4440
 tacagagctc ctggagctgc tgtagcaaca atgcgacgct ttcttcttcc attgtcatag 4500
 taaaaggctc cctcatacta ttattgagat tggtagcgca ttcctaattg taagggacgt 4560
 atttagatgg atcttctat ctagacgtgc cgtacgtaca agaaggaatc gctaaagaag 4620
 aaatgagaaa gaaggattgt tgttgcaagg aagtcttgta ggtggctcac cgccttcagg 4680
 acagcgcagg ccttggccga gtcactaagg tctaaggctc ttgtataggc aaaggacca 4740
 taacagtcaa ctactggtat agcttgtag ggacgcctcg gggcagtgat agctgaacca 4800
 tgtaatatgc aacattgcgc tgacttatct gcgtgcaatg gatgccaacc ttgctgtatt 4860
 tatgcttaat agacttgta aaccacgggt tggggcgggt tttcaggcct agctgatccg 4920

cccacgcggg ttttggggtg ggttaccttc acagtaaacc gcccatgggt ttagcaaata 4980
 attctaacc aacctaata acccaaaata acccagttat gcatacatt actctaataa 5040
 gtagtgattt acatagttaa taaaatactg tatttaaata ttgtattata aaccatctaa 5100
 gtaagaaaat ataactctaa tacagtaata tacctattca gatatcttgg caaccagcg 5160
 ggttgctccg ccgggctttg gggcagccaa aaatatccaa aaccaatag ataattagaa 5220
 ggtctaacc aacctatttc ttggcgggtc ggggcgggtt ggggcgggtt tcgtgggttg 5280
 ggtttaacaa gtctaataa gaagcattat attactggca aaatacctca agctgagggg 5340
 tttgaagaaa ttgtgcttta actgattagc aagtggttca tagttgggtg tgtagtactt 5400
 acctgtagtc agactcgggt cttgtatctg taaaattaga tccttgattt cttgaagaat 5460
 atgctctgga gcttttagttg gcggtggtag tagatactta tgaactctat gagatgtgaa 5520
 tataatatat aggcattgct taatatcaac tagaaccata gtattaaaaa taacattaca 5580
 gggtagatat atcaatcaac cgggtccctg tggatgatcg cgatctatat aggggtggta 5640
 ggaactgctt ggtaagtact tggcgagtac ttgtcaagta ctgaccataa tacttccttc 5700
 aacttgataa tgttacgggc taatgccatt aattatccta caggtaggat catcacagaa 5760
 gaacacgctg aagaa 5775

<210> 5865
 <211> 8109
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5865

cgcaattaac cctactaaag ggatctccca gctactccgt cggatatcgc gcaagcgagt 60
 gggcgagatc gagatcgac ctccaagacg tctatattcc actttgggga ccgggtcgct 120
 ccagaagtcc agttgggtga ttttgaatgg ccggacagag cagaagcaga agccctcgct 180
 cgccgttact ttgacttcgc ttgtccgacg tacagaacac tacaccagcc aacgattgaa 240
 agggaaattc gtgagctata cagagaggat acacaatttg atggcggccg ttctgtgcgc 300
 gaacagtcct ccgcctctca tgcggtgctc ttgatggttt tcagcactgc gaccatgttt 360
 cgttcagacg ctaacggccg tataacggac gcggacgatg cttgttggaa aactagcgag 420
 ctctactttg ccaaagccga gcagctttta tcccaggaaa taggtgaacc taggcttgag 480

tcggcacagg cccgatttct catagtgtcg tatctgttga gctcttcgcg tgcaacaaa 540
 gcttggttta cactgggtac cacaattcaa ctaatgatgg cacttgggct acacagcagg 600
 cgctcgagaa aggatgatga gaaggatcta gtacaaagag aatgccggcg tcggatcctt 660
 tgggtgttcat acaccctcga caaatacatc agtgtcattt taggaagacc acgtttgtgg 720
 catgacgagg atctggatga ggagctcccc gcaagagtta atgacaccga tctcttgctt 780
 acaccaatcc cttctcctaa gcgggactgt gtgatggatg ctccagtgtt ccatgctctg 840
 ctagctcgaa cgctatctca agccgccaaag gaaccttatg tggtagcggg catatccac 900
 agagatcaat tgaatacaat tggagccttg tgcaagagcg tcgccgagtg gcatgctaga 960
 ctgccacctc ttttgagcgg gagtatccat cccagcagtc tcgttccgat attccagcgc 1020
 cagcttacag ttttgcagct ggcacgttac cacctcctca tgtttattac ccgacccta 1080
 ctactgcgaa actacgggag aacatggcgg gactgcgaag ccagctacgt acaccatctg 1140
 ggagtgtgtc taacggcagc ccgagacgca gtcgaaatgg tgctcacctt tgttcggaaa 1200
 atcaactatt ccatgcattc tgggtactcac agtatatcgc attcaacgct ctctccatca 1260
 tctatatcta tcttatccag gtgcggcgag gaaaatacct caaatcagcg gcagcttcat 1320
 ctacgaggcg tactcgtttt ctctagacga gccaaactctc tacgatttat ctgggacggg 1380
 tcagcaccat ctggcagatg caacttcgcc aaattcacc ctcggggaaa tacagcgcta 1440
 tccctgcagg gcctccgccg agagtttagag cgctaggct taaggccacc ttttgctgaa 1500
 gttcccggtg aacatacggg accgaccagt gtttcaaata tggctgcagt tccgaatgat 1560
 gacgagttgc caatgactga aaactcaaga tatggccata tacgggatcc agagcacatg 1620
 gcgccagatt cttctctggc agagccggac ggaaattaca tgcaaatccc aggaatacat 1680
 cgctcgaacg aacaatactt tgtggacca cgactgagt acttgtttga tagttttgcg 1740
 acggacaagg acttgatgct tgacttttgg ccgagttgg acagcttgcc cataggtaga 1800
 ccccttctcg cttgttaagc agctattact tacatggttt atagcctaca tgggatgacc 1860
 tacgtaagaa cttatgcctg tcagctgcgc gctccaatga tctctgatac attgggcggt 1920
 gagggttgat tcttgggtac tgtgagttct gggatcctc attctatcct aatccgccgt 1980
 taaagtttgg tatgaatctg tgctgctaca tatatgatgg cttaagaggc agttcagcgt 2040
 ctggtcgtgg tctgtttctc catcactgtt ccacaaagtg tccacattgc gcattatcga 2100

gcggacgtca atgtctaccc acccagatct tgctgacgct tttccgacat acttctccga 2160
 ccatgatccg acacaagttt taagcagcag gaaccacgt attctctact tttagttttt 2220
 ctcataccag tgttcactga cttagctatt ccgcaatgtc tcttccttcc catttcagcc 2280
 tcaatactgg agcaaaaatc ccggctgtcg gattcggaac atggcaggcc aagccattgg 2340
 aagtggaaaa ctccgtggag gtcgcggtga agcagggtta ccgtcatatt gactgcgctg 2400
 ccatctatcg caacgagact gaagttggca atggtattcg caaatcaggc gtgccccgtg 2460
 aggaaatctt cctcactgga aaactatgga acacgaaaca tgcgccagaa gatgtcgagc 2520
 ctgcactaga taagacattg aaggatttgg gtgttgaata ccttgatctt tatcttatgc 2580
 actggccttg gtaatacctc taatcctggc cgaaacaacc gtgctaatag caaacagcgc 2640
 cttcaaagcg agtgacaaat ggtttcccct tgacgacaac ggtgtattcc agctagccga 2700
 tatcgactat gtcacaactt acagagccat ggagaaactg ctgaacaccg gcaaagttcg 2760
 cgccattggg gtttcaaact tcaacgtccg ccgactcgaa gatctcttaa gcaaggtctc 2820
 cgctgtccct gccgccaacc agattgaagc ccatccgtac ctccaacaac ccgaccttct 2880
 tcgctactgt caaagcaaag gtattataat cgaagcatac tcgccgctag ggaacaacca 2940
 gaccggcgag ccgcgcacgg tcgacgatcc cgctgttcat actgtggcag gccagctgag 3000
 catggaccct ggcccactac tggccagctg ggccgtgcag cgtggaacgg ttgtcttgtc 3060
 caagagtgtc acgccgtccc ggattgcggc aaaccttcaa gtcaagcgct tacctgacga 3120
 cgcgtttgcg actcttgag ccctcgagcg ccataagcgg ttcaactttc cggttttctg 3180
 gggctatgat atctttgatg aggctgggga agaggccgtg aagaaggctg caatggatgc 3240
 tgctcctata aacaagacaa agtttaccgt ttagatacta gtcagcagtc aagattaaca 3300
 tccgtttgat atcgtccttg taaccctgat aattagtcta ttttatagcg agaacaataa 3360
 gcaatattct gatcacatct cttcagagta atttctttaa cggcaagagc ttgagtaagc 3420
 aaaggcattc aggttgaata agtggtagcc tgaatttcgc aaccacggaa tagccaacaa 3480
 gctcactggc ctgcctgact ttctgcgtt attaggggat tttctgaaat gtctggtttc 3540
 caactcaacc gagcatagcc tggcttcata gtaaggtaga cactctgaac aacagtgtag 3600
 gattgtaccg acagggactt ccgccataaa tccgccagac ccaccttctg gcggaaaagc 3660
 agggatctcc gcattctctc cacaacttat tttcgcacca ttaatggaat cagctaaccg 3720

gacttttctc catgattcgc ttttctggaa ttggtggccc tccgagccgt tacggcagtg 3780
ggattccgag atggagtctg atacctctga tttataagt cgtgctggac catctcttga 3840
tttggtcctt tctgcacatt actcgtttga gaaactacca tgatggcgtc accagctgtc 3900
ctaagaccag catcaccggc atcgaattct agtgatgtct tgaccccgcc agtcagccag 3960
ggctcaccag cgacttcggt gacggagggt gaagagcaga ccatatacac tatcgatgat 4020
cttgtagggg ttcgagcctg gggagataag gctgatgagc ctattgtggc gtaccccggt 4080
gaggggacag tgtataaata ttatacaccg cgtgagggtg gctcttgaga tcagtaacaa 4140
caatgccagg agctaattga taagaatagc tgcacaatct agttgaagcc gcttcagtcc 4200
attatgcgcg tgtgatttca caacgccgaa cgtctgatga tccagtgcaa gtggttggtt 4260
tgctcgggtc ttctgacttt gagtacctga ttactttact tgcgatctcg cgactgggac 4320
atacggttct gctgttgta actcgattg cggaagacgc atacgtcagt ctgctcaaga 4380
acaccaaggc ttctctctc attgcatatc ctgcctttaa tggcgtggcg aagaaggcga 4440
cccagaggac cggaactgta ttgcaaccgg tgcttaggcg tgattattat gtcaacagca 4500
cgttgtagct gcgaaaagct gaactggacg ggctagttaa gatcaaacac ataactgaa 4560
tcatgcattc tagcggcatc gaccggcaca cccgaagcca attaccaga cactccgt 4620
cgattgaag aactatgcct ataactttgg cctcaggggt tatattacac tgtctgttta 4680
tcatgcgat ggcacagct gtcttttccg cgagtcctat tccgagaaat tgatttacat 4740
gtacaatgcg gaacttctc tgacgggtt ctacttgac acgacgctc aggagcatcc 4800
ggatatcgaa gtctctacg ccgttccgta tggcctgaaa ctgctctcg aatcggagga 4860
aagcatgaag ttgctcgcta gattggagct agtgatgtt ggtggctcgt cctgccccaa 4920
gccaatcggc gacaaacttg ctgagaacg agttcgtctc gtttctcatt acggaactac 4980
tgagacaggc cagcttatga cctcgtttcg ggatcgctcc gacacggatt gggattacgt 5040
gcgcccaggc ccgtcgttgc taccttttat ccgatgggag gaacagatgc ctggtattta 5100
cgagctgtgt atcctcgagg gatggccatc aaaggtggca agtaaccgac cagatggggc 5160
gtacgcgacg aaagatctgt ttgaaaagca tctacgaag gagaacgcgt ggcgatatta 5220
cgctcgtcta gatgatacac ttgtgctgga gaatggcgag aaggcaaacc cgctggtcac 5280
tgaaggcgtc gctcgcaatc atccaaatgt tgggaagca atagcgtttg gctccaacag 5340

atctcggcta gggctgttcc taatccgcgc tgaaggacgt actgatgaga cagatgagca 5400
 aattatcgac tctgtcttcc cagcaatcga gcagtgcac gcggagagtc ctgcttatgc 5460
 gtatatttcc cgagacatga tccgtgttct gcccgccgat actgtttata ggaaaacgga 5520
 caagggcacc gttattcgct ctgcgtttta ccgcgatttc gcagagcaga ttagccatgt 5580
 ctacgaccag gaggattcca gtgggagcca agtggttgaa ggtgatgaat tgatcacctt 5640
 cctccgcaac agcctccttg aaatttcgtc gtccattgag ccatctgcgt tgcaggattc 5700
 tactgatgtg ttcagtctgg gcgttgatag catacagtct ctccgactac gaagtgccat 5760
 cttaaagacg ctgaatcttg gtggccggaa gctttccag aactttgtct ttgaaaaccc 5820
 gtccatacaa gccatggctg acgaacttac tcggttaaga cttgggagag gtcctcagca 5880
 gcaaattcca attgaagatc ggatggaata tcttattgag aaatacagcc gtggcttcaa 5940
 ggagcatgtc ccagttccga gggacgataa cggcgagcat atcgttgtaa ctggtgccac 6000
 cggatctctg ggtgcgcata ttgttgccca gctgatccgc gccgagcgcg tacgcaaagt 6060
 atactgtctc gttcgcgctt catcgcttct gtcagctcta caacgagtgc ggcagagctt 6120
 gcatgctcgc tttttgttgt ctagcctcac accagacgaa gaacgcaaaa tcgttgcggt 6180
 gcccgctgac ctatcgaaca gtgtgaggtt aggcttgctt gaagacgtct acgaagagat 6240
 catcagctcg gtcacggccg tcatgcactg cgcctggtct gtcaacttca actggacact 6300
 agagagcttt gaacagcctt gcatcgagc cagcgcaat ctggtagacc tctgccttga 6360
 caccaaggt cctactccag caaatttctc cttttgctcg tcggtcagta cggttgctcg 6420
 cagccagggt aactgggtgc cagaagcact tccagagtca ctcagttatg cgcaatcaat 6480
 ggggtacgcg cagtcgaagc tggttaaccga gcatgtagtc aaccgtgcat gccgtcaaac 6540
 tggcctagca gcccggttcc ttcgagttgg acaaatcgtg gctgatacgg agcacgggtat 6600
 ctggaacgcc accgaagcta tccccatgat cttccagaca gccgagacag tcaaggccct 6660
 tcctctgctc gacgacattc tgtcctggac tccggttgat accatggcat cgagcattat 6720
 tgaggcgacg ctatcctcaa ctgcagcaga agtcatgaac attactaatc caactctaaa 6780
 ccaactggact cgtgacctcc tccccctcct gaaacaggca gggcttactt tcgaagcttt 6840
 ggcgaagcac gagtggcttg cccgtcttcg ctcaaacctc gacccaaaac gcaaccacc 6900
 tatcaagctc cttgacttct tcgccaagaa atacggcaac gattcaccag cccgcgtcct 6960

actatacgac accaagaaaa gccagtctgc cgccccgtct cttcgaaacg caccaggact 7020
 aactcaagac tttgtgaccc ggttcgtaca tcaattccgt cggcaagtct ggtcgtcaac 7080
 cgcagcccaa tcatcaccta agaattgtgat ctctctgaca ggagcctgtg gctcagggaa 7140
 atccaccgcc ggacttcacc tctcgacaaa attcaggatc acaacaatcg aaggcgacga 7200
 catgcactct cgtgtctccc gcgcgaagat ggcgtctggt atcccacttt cggattcaga 7260
 cagatgggaa tggctctctc acatacgtgg agccgttatg gaccgcctac tccaaccatc 7320
 cacctcggcg ggaattgtcg tcacctgttc cgcactcaag aggtcctacc gcgacgaatt 7380
 acggaaattg atgtatctat tggaggaccc cgtaaattgt acatttatcc acttgtttgt 7440
 tggcaaagaa aacaagacgg agctccagga gcggttgatt ctgagatcga aagtggaggc 7500
 gcattacatg gcgtctacta tggtcgattc gcagttggag gctttggaga gccagagga 7560
 agagcgggat gtcgtagttg tcgatgcagc tgggatgaag gatgtggtcc tcaggagagt 7620
 agaggagatt gtgagaggga ttctggcgta ggttctaatt ttttagtgat ttagaatgcc 7680
 aatatatgtg gttactactg aaatgaatct gtctttgtac ttggatcctg tgcttccggt 7740
 attctgaaac ttgcctgcac ctttacgtct gtgagctgct agttatgtac ttcagacact 7800
 taccgcggtg tagagtaaca ttgaacacac ttgggataag gaaattgccg gttgctggga 7860
 gttccgaggt tgtccattta tggatgtcg gattcctctc cgacactgtc ggtttcgtaa 7920
 cttctgccaa ttcttctagc ggatttatac cggagaaccg cccaaatatg ggcgagaaag 7980
 taaggccact agctcggata acccgtaaatt gactctcccc catagcaaaa aaagaatcca 8040
 actcccttta ccccgccaac tgtccacca acccggggga tccctatagt gagtctgatt 8100
 atcggccgt 8109

<210> 5866
 <211> 9481
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5866

aattccattt tcctactggt cagccgactc tgcagagcta tacatttata taagcttgaa 60
 tcttgagcag tcctctgttg tggtcgtgta ctgcaggcgt gtccagtgat tcagtgtcaa 120
 acgctccccg cgatccgtta ttgcaactac atttcagcga tcgaataggt ttatctgaga 180

gcagtcaagt cgatacaaat tatacacgag cagctttgat ctgactacat gggagggttat 240
tcaacgtctt tcacttccac gagctgggtcc tcttgtctat aaagaggcat gtcttctgtt 300
cgcggtcag gttggtagtt cactaaacct tgaaactgcg agatgcttat gatttcttaa 360
tatactctag gcaagactgc ccctcgtctt gtacgagatc tactcgacta tgatccggcc 420
cattcgccag gcaactggcg taacctctc gccgaagtac cccagctta tcccgatcat 480
taccagggac cgctcactt catttccccg ttagcttgcg ccataatta tgtcacaaaa 540
ccatacaaaa caataaggcc accgctgagg gaaaacggag aaaccccgga cactctcgcg 600
aagatatcta caatatgctt gaagtgtcgc tatcacctac agctcgagca gattattgac 660
cctgggtggtc gagcaagcca aaacatttcc gatcacatac accacctcat ttgctatgaa 720
ggaaagtata atgggggcca gactggaccg gacatcacag agaaaggcca ggtgggtggag 780
acctttcgtt aacaatgctc atatcccgcc tgtgcctata gagttatcat acgggtcgcc 840
tcacctctgc tttctgacca ctgggtccgg ctcttaaccg actccaagat gctacaaaag 900
cgcacggatg atgccttcgc agcagatccc gagcgggttg aaggagtgcc tcgccagag 960
cctataacgg tcttgatgaa tcttcgtacc tatatcaaca atgttctccg caacagccaa 1020
ctaagcaaga caattcaagc taacaataag agattcatga caagctttgg tgtcaatgga 1080
gagccgtgcc gggatttatt tgaatatcta gggttcactt tcagggttaag tacttctgcc 1140
tgtgcctgc gagagtagtc ctataactaa ctgagtatct agagggaggg cgcttgggat 1200
cctcctcgtt tggcagcatg ggtgcaaac caagtattat acaaagacca acagaagggt 1260
tttctcgatg atatcttcca cgagctatct gcgctcatag cggcacggcc tgctacggag 1320
aagaagggca atcacgatga ttataccttc caaccagctg ttgatgactt atactttgcy 1380
gtagacgctt ttgactgtga gtgtcctgca atttttctaa acaacgggtat gctgattgca 1440
tgttcttaga cctcagagcg ccgagggtca atgagtttca gatggcgccc gctccgttag 1500
tccttcccat tcgtttcaat agtggccttt gctctgacta gctagtagat actacgaaga 1560
tttgggtgtc gttgaggata tggtgacgtc tacgataatc gaggcattta atcgccaagt 1620
cgcagttgat ccggggcggg ctccgggcta cttgcagtgc cttaggaga taggctccct 1680
tcgaggcgga gaagatgcgg aggcaataaa ccgtgctgtc gagacggcat actcggaagg 1740
aaatttatac accgatgcag acattactga agcatacaag tacttcggtc ttagccgtga 1800

tgacccgcga cttactgagg acagcattat tggaacattc tatgcctact tgagctctac 1860
 tcctcaggag actgaaaccc gcagacaact ctggaggata ggtgacagta ggaggagcga 1920
 gcgcatcaag tctgcagccg aagacagtaa gcacatgttc ctctttccat ttctattctc 1980
 gttagctcac actcttgaaa ggagtcgcta caccagaaca agtcaagtc tttcttgggg 2040
 tcagtgatga caccgcagat gatttcgtca tggcgatgtt tactgcaaag gtaccatattg 2100
 cgctattttg acgtccaatg caggaatagc taatttatcg caggtaaacy ataaccatc 2160
 ttgcagggac atcgcgcggc gggccgttga attaatagcc gaggcgcgga agtccgatgt 2220
 gttaaggcac tttgtcaaga cgggcgagat gacggctggt gaaatggatg tgggtgatgc 2280
 atacctgctg ctgcagatac ctgatcgcaa cgcagacgag ggcgccatca tggctgcata 2340
 tacaatctgt gtcgacgatg ccccagcaca agcggaaaaa tataataagg ccttggctat 2400
 tattgcaaag gaaaagaaca gcccgctcct gagcagtatg gttcctgggtc tcgcagggaa 2460
 atctgatcgt gacttatcca agtggcccgt cggcttgtag aatattggca atacctgcta 2520
 tcttaacagc ttactacagt tttatttctc tgttcgtccc tatcgcaaca tggttctaga 2580
 ttttgagaat gtcaaatgg agttggacga agagagctgc cagaaaaagc ggggtgggttc 2640
 cgttgagtc tcgaagaag agattgaacg ttcgcagaaa tgtaagtaat ccagcgaact 2700
 cgttgtttga ctttaactca ccagttgtga accatatagt tatcaggagag ttgcgggcgt 2760
 tattttctga catgatttct tctccaaact cgtttgtgac tcctggccag gagttagcac 2820
 gcttaacatt gattagccct tccaacgagg ccgctatccg ccgtcgggtca acaatatcag 2880
 caggtcgatt cgggggggtc ggtgagctca acggaatgcc agttttgggt cccttgggac 2940
 cgccgccgaa gagttcggaa actgaagctc atgttccggc tccagagctg gagaagacta 3000
 aaccagccag tgacgaagat agtgaagcca cacttgtctc tgatccagtg aagactgagg 3060
 taccgctggc tcaaagtac gacaaggaga acgagccacc ccaagatgat gctgtcatgg 3120
 ttgatgcgcc gaatgaaact atcagagcag cagagagcgt tgagacccaa acagcgcagg 3180
 ctcaagctga cgctactact aagcctccgc ccgtaccccc ccgacctact ccgcaagttg 3240
 atcctcagag acaaattatc gaagagggtg aaataggagc gcaacaagat gttactgaag 3300
 tcatcaacaa cgtcctattc cagagccaat gtgccatccg agggcacgct gtcgcaccag 3360
 atggagaaca gcttgaccag gtgaaagagt gggtttctct cgctgtatat cattactgtc 3420

ttcgacgctg actacttgca gtttatttta tgggcaagcc aggtcttata ttctgtccaa 3480
 caagggcaag cgatcgaagg aggagtgggtg gtgcgacatt aagatcgatg tagcaactgg 3540
 gccccgtgac atctacgcag ctatcgacgg cgcatttgat atccagaaag tcagcgttga 3600
 ggattcagtg gcagaacagt atgctgccat cagcaagctt cctcccatac ttcagattca 3660
 agttcagaga gtccagtttg accctgtcaa gaagcggctt ttcaagtcga cccatcattt 3720
 agatctgaag gagattattt accttgaccg atatatggat actcagcagc ccgaaattgt 3780
 gaaccgccgg aaacaggctt gggagtggaa ggataccctg agaaaactcg aagccccgccg 3840
 agcagaactc ctacgccaaa gtgtatgcgt caacaaatcc gcagtgttgt cgttctcacg 3900
 agctaacttg gtttatagga atccgatggg ctcgacactg caacattatt gaaaagcgcc 3960
 aaggacatct taactgaact cagcgccatg aagcaggacc ccgacgcctc tcaggatgca 4020
 attgatgttg accctcaact catcccagag ctcagtcgac tcgagcagaa ggcacaagat 4080
 gaaatgaagc gtaggtcaac cgccaagtat tattacgaac agtatggcta acccacaaaa 4140
 aggccctggaa caagaaatca aaaatatcca ggcaatgatc tccaaccagt tcgtcgacta 4200
 caaacatctg ccctatcgtc tttatgctgt ctttgtccac catgggtcgg tcgaattcgg 4260
 acactactac atctatatct gtgactttga gcgaaatatt tggcgcaaata acaacgacac 4320
 ctacgtaact gaagtcagcg acctggatga gatattcaaa agccaggatc gccacaaccc 4380
 tctacgcca tatttctcgg tctacgttca tgacggattg aaagaacgcc ttgtcagtcc 4440
 ggtagccaga gagatcgtgg agacgacacc aagaagcgcg ccagaaccga ccaccagcgg 4500
 cgcgacgccc atggaaggag tgatttcgtc gaaagagccg gaggatgtag agatgaatcc 4560
 accaacadat gatgaggtat acgctgaggg cggatgcata ggtgagggcg cagatccccg 4620
 aatgaaggaa aaagggaaat cattgctggc ggagcgcggc aagactcgat catgggcacc 4680
 tgatgggact gacaaacctg atgtgatatg gtagaccggt ggaggaaccc gccgaatatc 4740
 gcaacccgcg aatccgctta agcgtaagggt gttggatgag atgcagcttg gcccgggaagg 4800
 aggtagatag gcacctgcag gtgcgttgag tgactgggt catcctttcg gcgttattga 4860
 cctcgtgata ggaaggggtcc tccaggagaa cgaccactct ggccaagcgc cttttagaga 4920
 agtacgaccg aaagcctgcg tccggttggg cgctcctgct acaattgaat gcagcaggca 4980
 ttctcgccca gtgatgcatg aacaagaggt atcctgacta cgctgtgtac atattggggg 5040

gcttgacgat gatgataatg atcatgaccg gaatatgata gctaatatca tgatgtataa 5100
gaaggatact cttaatgttt gtgtgcagta tctccaatag ttctaagacc cccatgtatc 5160
ctttatgtat ccgaaggtgg cccgcgggtc gggaggctag atccgcccgc attgtcggca 5220
ctgcaatcgg caatggagac gtctcttgag ctggacctaa cgtaaagtat agttctggcc 5280
gcgagacctt gctcacaatg gaaataaaca gtcgtcgcac aatttatttg ggtgcaatga 5340
ttctggagtg catttttgaa gcaaataac ctattctgca gtatatgctc actgtcagtt 5400
agcccactgt cactgctctc caatgttctc cagtgcgggg aagttccagg tcgggcccag 5460
agcggatccc attccgcagc tccgcttcca gccgctcgta agccgtaaata aacacttgcc 5520
tcccaccaga gttgctgtta ccgtttggct tctcatatct tcattttcgc ttattgctgt 5580
cctttggctt ctacttttcc ttcgtctgca gtatgccttc acccacagcg atatgcctgc 5640
gcttcgtcag gcgcgcttcg ctcaatccca gcaaggtagt acgaacctta ttctagtata 5700
gtgagaatac agtgggaagt cgattgacag tccctgtctc tgcagacca agtcttggtg 5760
gcacgagcct tttccaacag cgttcgtcgc tctgagatta acaaagtggc ctcttctgca 5820
gacctcgcaa tcaaggacat gaagtcaaac tcaacgcttc tcgctggtgg gttcgggctt 5880
tccggtgtac cagacacatt gatcaatgcc gtgaggaaca accctgcaat cactggctta 5940
actgcggtga gcaataacgc cggcgttgat ggagctggtc tgggcctcct gctgcagtcg 6000
aagcagatca aaaagatgat cgccagttac gtgggcgaga ataagacctt tgagcgcatg 6060
tacttgggcg gcgagatcga gcttgagttg acgccgcagg gtaccttggc cgagcgctgt 6120
cgagcaggtg gtgcaggtat tccggccttc tatacgccag ctgcatttgg aaccgttgctc 6180
cagaccggcg aactgccgct caagcacaat cccgatggta ctgttgcatc gtacggccag 6240
ccccgcgatg tcaaggctct tgatgggaag agttacgtaa tggaggaggc cattaagggt 6300
gactatgcct ttgtcaaggc ctggaaggcc gataagctcg gcaactgcca atttcgctac 6360
gcggctgcaa acttcaacgg cgccatgggt cgaaacgcga agatgacgat cgtagaggca 6420
gaacatatcg tcgaggtggg cgagatcgag cccgccgcta tccatctgcc gggtatctac 6480
gtcaagcgcg tcattcagag cacggcaccg aagaacatcg agaaatacac cttcgccaag 6540
gaggaaggtg aggataccgc cgcggcccta ggcaaggcg atacggctgc taagcgtgag 6600
cggatcgtcc gccgtgcggc taaagagttc aagaacggga tgtacgcca cttgggcatt 6660

ggcatgcccc tgctcgccg taacttcgtc gacccctcag tggaagtgca gctgcagtct 6720
 gaaaacggta ttctgggctt aggcccttac ccaagaagg gccaaagagga cgcagacctc 6780
 atcaatgccg gaaaggagac cgtcactctt gcaccaggag ccgccgtctt tggcagcgat 6840
 gagtccttcg gcatgatccg gtctggccgg atcgacctga ctatcctcgg tgcgatgcaa 6900
 gtaagcgcca agggagacct cgctaactgt aagccttaca tccctttcac ctccctcacc 6960
 attcctacca tctatccttc gcgccttctt aacgcgactc tagggatgct cccgggcaaa 7020
 attaaagggt ttggcggcgc aatggacctc gtctccaacc cttccgcaac aaagggtgtc 7080
 gtgactatgg agcataccga taagaagggc aacccaaga tcgtcaaaca gtgcgaattc 7140
 cctctgacgg gcaggacttg cgtagccgc atcatcactg aactctgctt gttcgatgtc 7200
 gactttgtca acggattgac tcttattgag ttagcggatg gtgtcacagt tgatgaggtc 7260
 cgggctaaga ctgaggcgcc gttcaagggt gctgatgatc tgaagcctat gctgtgatag 7320
 gggatcggc atgacatctt tgttggttatt ttttttattc tgcattcaat cagcggcgta 7380
 cctttgtgat ttcaagcgtt gacagtgtt ttggaccttg tttgtacata gtggttgacg 7440
 acaggaatac cttatcatgg gatatttagt aaacatataa ccatacatat aaccagctct 7500
 tggcttttga gacaactcca agcaacttca ttaagtgaat tataccctaa cctattagat 7560
 gacaacggaa tgtttttcaa ccacgtattc atacaccaac gccatataat acatacgtat 7620
 cttctctcta tttaaatctc aacaaccgga ccaacctctt ccgaatctc cctaaaacat 7680
 cccgattggg cgccctctca aattcctgaa gcagattatc gtagtgggtc ggattacttg 7740
 cgggatgccg taacttttcc gataacgggt acctctttgc gtatcgggtc tctaaaagcg 7800
 aatccaaggc attgagggaa gattggggga ttgcgctcgt ctttgcatth gcgtctgtgg 7860
 ttgtgctgga ggaagagtct tgtgtttgtg gctgtgatgg gaggcgcgac tgaaggatat 7920
 tttgaacgga gacagaggct ggtcgaattg ggtcgggttg ccaatgcttt ataaggtaag 7980
 ttaagcggga tgtggtggtc tgaacgagag tagttgttag attgaggaag attagagctt 8040
 attgtagggt agcctaaagg gagcgaagca tacggaagtc ccggccatga tgattgggggt 8100
 aagttgatta tcaagaactt gtgttttagt tcgcaagcaa caaaatatgg tccacgtcga 8160
 actctgagct gcagagcctg cttgtgaaga tgggatcgaa ctggttctac actttcaatc 8220
 accgtacgtc cccagactca ttgatgcggc aaaaaagtat aatcacgtga ctcaaatgca 8280

agagcggatg ccgcccggcc agcacagcca cagccaatcg atcagtgggc cgacgcctca 8340
 ggagccaggc atcctcgaat tggatcgta gctgggagcc ctggagtcct ctggaatgtc 8400
 agttgggttg gtcagccatc catccatcta actatccatc gtcattctgt cccttctgtc 8460
 cctctcatct tttcatcagc ctatacagtc atttctcgt cttttctctt tcgaaatacc 8520
 tgctcgacgc ttaatccgtc cactaaacat tagcagccct tctcccggcg cttccgctcg 8580
 ctgagctcgt tatgagctcg cagcgttatg aacgggtacg tcttgccctc ccagcagaat 8640
 gggtgaccga gtacacgacc tcgttcatag atatcagcgt caaccctaa gaaccctact 8700
 gaacggctat tcccaggtaa acgcccacga cgacgatgac acccctccgt cgatcgccct 8760
 gcagcctact tcttcatctc cgcctccctc gttccgctca cgttccgctt cgccctcctc 8820
 acgacgtctc cttcacgacg accctctaca ccgaaacagc acagaacaga ctctcgccga 8880
 tgcgtttgat gacagcgact ctgaggcaga tgatgagcca gatgaccggc aacggctaata 8940
 gcgagctcag ccggatgcct ggacgacagc agatactggc aacaacacat cgacatcagc 9000
 agacggggtc ggggcagcgt cctcatccgg tacgggcggg gacgcacagg tgggaggtcg 9060
 ctcaaatacg gatgccacgc cttcgagagg gtttcagcga acctccacgt tggtgccttt 9120
 ctttgggcgc acgtcaagtt ccggatcgaa tcgccatata acttcatcaa atgatggggg 9180
 ttttgcgaaat ttggcagcca agccagagag gggggaaaag agtgaggatt tgctccggg 9240
 atgtgtttta taatcgaggt cactatacgg tttaactaac ctttactgta gtcatatgaa 9300
 gaggtgctg ccgatgcgac tccaccatac tgggagacca ctattgtggc acctgggtatt 9360
 tcgtcggatg aggtctacgt tgatgggctg ccggtcggct cgatcttctc tttcatttgg 9420
 aatgccatga tttctatgtc gttccaacta gttggcttcc tcctcacata tttgctccac 9480
 a 9481

<210> 5867
 <211> 7473
 <212> DNA
 <213> Aspergillus nidulans
 <400> 5867

cttctgagga tgggaaagtg cggccattat gtctagtttc tggcctctca tgtctccatc 60
 atcattagaa ttataagcat cggtcgatca ggtattcgtc atttgacagt cctagtcctt 120

gacatatccg ttgacgcttt accggattcg tcgatcgcg cttttctccg atccggaacc 180
agcaagacaa aggcttcgcg acctgctgga tgaggagcgt gtacagacat ccgcaacgac 240
tcgagagccc aagggtatca agcaaatttc gctgccttga atgagcgtca ttccaattcc 300
ggggcgatga gctacctcc atcccataac ggccactatc ataaccgcca tccctctcag 360
caagccgccc agccgccact cctgtataac aacgtgaact tcaacgctaa tgccattgcy 420
tcggcgtacc aatatggcaa acccgctgtc taccgccagg ctatgatacc gccctaccaa 480
ccgtatggtc aggtacccaa ccagcagcca cagcaaccac agcagccgca gcagccacaa 540
ctccatgtga atcccgcgga tatattccaa cagccgatac ttccttcgcc gtctccagcc 600
tccttttagta accacctttt ttctcaatat ggcgcgcaat ctgcgggtccc tgttgctggc 660
aacaaccgct cgccgtcatt cactactccc gctgcagctc cgccggcgcc agtcccagca 720
gtaacaccaa caccgacccc acaatatgag cctagtccta tcaatgcgag taatcaagct 780
ttcaacaaaa ttctaaacc ggccgcgcc tcgcaaacc cgtcagatac caattccgct 840
gtagtgggtcc caccggtagt gactactccg ccagttcaag ttctattacc ggccccgtcg 900
ccagagaaga tgcagcgccc gccttcgaag aaacaaacac aaaaacagcc gaccaacag 960
cccgcgcga aacctgcga acctggaata gactatcagg tccttttact ggccatggct 1020
gacgagtacc tcaatactgc tcatagccat gggacgaatg ttgcattgtt gagggacatg 1080
gagctggagg aatctacag gttggttgcg actggccttg gatgtctgga agcagttctg 1140
aaggtttgct cgctctagcc cgtggcacac tgaaaaggct tgacgtgatg tgtagaactg 1200
gaggttaciaa cctcgtgtcg aagccctggg gcgactgaga tatgcgcgcg tgctctttga 1260
ggaaacggac aacgacttgg aggctgagac ggcattgagc aaggagtagc gtccaacttc 1320
tgaccacgca attttccatt cactgacgtg cgtctcctag attgatttat gcgagcgagt 1380
gagtcagata cagggttctt gtatgttgtt cgacatcata cttataatcc ttagaatcgt 1440
atgctcgatc tgaagtacag tatgcagcat ctgctagcgc gtatgttgta caaaacaaac 1500
ccgaaggccg ctctgaaggc cgtggatggg atgatccagg acgtcgaagc gtaagttagc 1560
cctggccacc aatcaagcgc tgtttgacaa gtttaggtac cgccactttg catgggaata 1620
cgcttccgt tttcttcgag tgctcgtctc cttgtcatcg catggtcacc aagagtctac 1680
atcagcttta caacatcttc ataagatctc tattatggca aatcgcaatg gtgacagagc 1740

cgtttctgcc atgtctgcc taatcgaagc cttggcacat ctccagcaag gatatagctc 1800
 agactcaatt gaacaagccc aacgagcaat agcagccgca cgaagccatc aacttaatga 1860
 tgaactacgt catgttccgc agctcacaac tctgggccaa attgtggata tctgctgcag 1920
 tctgcttgaa tatgatgtga atcaatccgc ccagaaactc aaggtattac aagacctgat 1980
 ggatgagcga ctgaacgatt caaattggcg cattgatggc tcattctcaa tacctttgag 2040
 tggtaagtca gcgggacctt cttcaattga cacaggggat atccttcaag tacagagcgg 2100
 tactttacta ctcagtttca gttggctacc ccagcatgac ctctatgctc tctgctactt 2160
 tcttagttcc atcacactga gttgtaagaa ctacatgat gggcgtaagg ctgaaaagtt 2220
 tcttcaggag ggtgtacgca tgctaaaggg ttggttgccc acctataatt tagataaaca 2280
 ctaacactcc gcaggaaatt ttcaacaacc gcaggaaatc acggaatctt tggctagtgc 2340
 caatagacgt gttgaatggc gcaggacgct attttgcaat ctacttatcc aacagatatt 2400
 cttggcttct agccgcacag actgggattt cgctaataga accctgaagg agctccggct 2460
 agagggtcaa tcattcggcg acaatcttcc tcatacaatg caatgcctga tgagtagcgc 2520
 agcaggtacc attgcacagg cgacgggcca tttagagaca gccttggccg tttttcaatc 2580
 cccgctattc ttattatccg gtttcaacaa aaccgctcgc aatgaccctc accgcgacct 2640
 cgccatcctg gcaaccatca acatcgctct catcctcagc aaccagccc acccatctca 2700
 ttctcacctg ccaaacctcc tcgccacact tgagtctttc tgtcgcgcaa cgctaataa 2760
 gtacatccaa gcgcgatatt tcttgctctg cgcgaccaca aacaccgaat cgaccatcca 2820
 gactaaacaa aacctccagc aagccctcca ggctgccacc gcaatcagta acagccaaat 2880
 catatgcatg accttaacct tcatgagctg gaaatatttt cgtggagtcg tgggcgagca 2940
 agccgaaaaa agcgtctcgc cgggccgcgc aatggcgga aaggccagcg accgtctttg 3000
 ggttagtggt acggacgata tgcttgaga gactttagaa aggcagggga aaggcgaaga 3060
 ggcgaagagt gtccgagagg agggttacag ggtcatgacg aacctgccac cggcattgag 3120
 acggcctacc tagtttatgt tacgtttcgg caggcatttc cgtgtaaag tctgatcat 3180
 tgcacgatct tgtacagaca ttcgcttcat tttgccttct tgctcggcg tattctgctt 3240
 taagaaaggg tgcaactatg catatgatgc catttctaaa acttcatccg gcgttttgctc 3300
 tacagggtcg gtctttcttg gtgcatcagt tcgggtgcaa taatgtcgca tgctgggtgc 3360

agttatttac ggagtattcg ggacaaattg atagattggg cttcattatc attcaatgga 3420
 aatatgcatc caatcacttt tacggactcg agccccttgg ttccagaccg tcctcgaccg 3480
 gacatactca gtaataataa atttagcccc aggttaactcg cacctaagct ggatcgaatg 3540
 actgcttccg aacatgccat aacgccgtct gccctaatat agtgcataag taccctcgac 3600
 cataacatgt taaaccacagg caaccgcga ttactcctta aactgtgcg ccgcgaagtc 3660
 atgcaccac agaaaaaaga actggagctc agcacaaggc atgatcgtgc tcccgtttgg 3720
 tctgaaattg acaaaaacac caaaaaagga caggtcaaga agattggaaa cattccaata 3780
 gttgcttggt ttgatatacc gcaattctta ggatgcagtg ctaccaccaa ccctgccctg 3840
 agttcatgct ctctcagtag gccactagtt aggccttgag ccataatccat atactcggac 3900
 tgaaatggaa gaagggatat cgacacaacg gaaagaaaaa gtgcgaacaa agagattctt 3960
 ggcaagagaa gttcagccaa gaccaccca agctccgcga atcctacgcg caacgtggat 4020
 atccttctgc attatcgtaa ctcgtttcgc gtggatggcg caaagattcg tgcctcgaa 4080
 caagtgtacc aaaaaggctt cagcggcttc ctggagcgcc tggattgcat gcgactgcca 4140
 tcgcagctcg gagccaacgt ctgcggggag gatgtcgaga gcaacttcgc ggacgagacg 4200
 tgcaaatggc aattttcgga gaagcagatc gtaggagcgt tggacttgc ggatttcttt 4260
 gagggcaacg gtaccagggt tgtaccggtg acgacggcct ttggggggtt ggctgccggc 4320
 tgtgtagtgt tagtttgggc taattgagca attgatgttt ctgttaactta cgttggatgc 4380
 tggattgatc gtctgatggt gccgtcggtg gtcgcttact tcccttagat ttcgacaccg 4440
 atgccgatgc caatgccttt gaccctaatt ttctggagct cttagttacc tttggagagg 4500
 cgcctgaggt tgtggtggag gttgtctttg cggatgtcgc ttttgagctt ccgttacctg 4560
 cggtagctgc cgaggatggc tttcgtcctt ttgggggcat gttggcgaag tatacgttgt 4620
 cgcaaagagg tggaggtcgc tgggctcagt agtgtttttg aaagatcgcg agttaaatcc 4680
 ttagattatt tttccaagtg gagtaggaca agtgagctag gtatgctgtg aaggcggctg 4740
 aagactgttt cgtccgatct gggatatctg ctgcactgta ggcggtcgca ggatcgcaag 4800
 atacgtagac gcaggttcat aaccggggcc aggaccagga ttactcgca ttgagcctca 4860
 ggagaagcga cagacggctc acaattagag gtggctgggc cctgtgaata gcttctcgta 4920
 gagttgacgt actcggctta gcgtttcaac ctactttcat tagtccgacg cgagctcgcg 4980

tacgcgatcg ttatctatca tggaaggcta cccagtaata tataacactt caaacatgtc 5040
 tggagccaat aacagctcgc atagctcagt tggtagagcg cgtgactagt ataatgtgaa 5100
 tttcagaaat ctgaaattcg tcgttgaaat cacgaggta gcggttcaag tccgcttggtg 5160
 agcattactt tttttatgaa acaattcatc tgcataaact cggtaacataa tatcgtcatt 5220
 ctatctatgc attctatgca ttcgaaactc ttatctgcgt aactccatgg atacctcggt 5280
 aagtctcaca ttcagtgtct tggcaaaaaa ggaatatatc aagcttctgt agttccgccca 5340
 ccgtcaaact ctcttccaag tatattccgg aaaatcactt tccaggtatc acctctcccc 5400
 taattttggg ctgacacagt agctgattga tttttttttt ttggcaggta gccggcttct 5460
 ttgttacaag tgtgaagcct tgccatggct gatacacagg cttccagtct ttatagctca 5520
 ttgcctgtat caaccctcgt aggcctgggtg attgcaatgg gacttctctc ctgggctcgg 5580
 cccagtgggc gagtatcctt ttttagctcc aaagagaaca atcttttctt caataggaga 5640
 aatgggaaag ccggttccaa gcagaccacg ctaaaagaac tctgccgcac tgctacacca 5700
 gcaagatgtg atctcaaccc tctcttggtc aacggccact tgcagacctg ctggactaca 5760
 gtgaaatttg atgacgttcc tgtttactac aagcgccgga tattcgaggc cgacagcgag 5820
 gcgtataagg ggcatttcgc cgttgacttt gtcgttgagc cttacaaagc acccaaattc 5880
 gctgaagcaa ctgatgcgga gagaaagtat accctgccat caggtctccc agaacggacg 5940
 gcaatgttct ccgaggatga attcgccgct ctaccttcag aagactcaaa gcctatgctc 6000
 gtggttctgc atggtttaag cgggtggttcc catgagcttt atttacgcca tgtagtccac 6060
 ccgctgattg cggatcgagg ctgggaggct tgcgttatca actctagagg ttgtgcccag 6120
 acaaagatct ctacggggat tctttacaac gctcgcgcta cttgggatgt tcggcaagtt 6180
 gtgaagtggg taagagcagc tttccctaac cgacctctct tcggaattgg cttctctctc 6240
 ggtgcaaaca ttcttacgaa cgtaagtctt ttgctttcac aattggaaaa caggctaata 6300
 tattcagtat ttgggcgagg aaggagacgc ctgccagctg aaagcagctg ttctctgcgc 6360
 aaatccctgg aatcttgaag tcagttcggg ggccatgcaa agtaacttta tgggcctcaa 6420
 agtctatagc aaggtaatgg ggcgaacat gaagaagctt tttgaacagt acgtggcttg 6480
 ctgatggatt ttccaaaccc tttgggattt actgacatag tacaggcatg ccgacgaagt 6540
 cgtgaaaaac cctagggtag atgcagaagc aatcaggaat atcacgtatc tgcacgaatt 6600

cgacaggtat ggaccggctt gcctatctct tgcgcttttc atgctaactg tcaatttagg 6660
 accctgcagt ggcacctatg ggggtatcct acggaaggcg catactaccg tgacgcatcc 6720
 tctatcgact ctttactctc tatccgaatt cctttctttg tgggtgcaggc cgaagatgat 6780
 ccagtaaggt cgaagacgat gccagaatcc catatactga cgggatacag atcgttaccg 6840
 taaaagcggg tcctttccag gagatcgctc aaacacctta tgggtgcatg atgaccacct 6900
 catgggggtg acacctcggg tggtttgagt ttggcggcgg gagatggttt gtgaaaccag 6960
 tgagtgcctat cattctgttg cagcgggtga tgctaatttg acagggtgacc aaattcctga 7020
 atatgatggc tcatgagatt gatctcgata cccctcctgt ggtcgagaag ccggaagctg 7080
 ttcttgagc tacttccagc cttcagaaag acgccgctgt aaaagagccc aaaccggcag 7140
 ctttcagccc tatgcggcgt aagtcagcct gccattatt aactaggaaa cctgttatct 7200
 cgaatagaac actgtgaata ggctcgagta tgatttgctg gttgacgatg acgatattca 7260
 tcagtgcctat tcatgtcatg ctcaaggata tagatagacc catagaaacg ccggaaccct 7320
 ctagatacag actcgatctt gctatacata ggattacttt tgtaaaaaac caatcaagca 7380
 aatgcaacgc tcttcttctt gcgcctgac tttggctttg ggctctcctg ctcagcttta 7440
 tttgactttg cgctcgaagc acacctttgt gtt 7473

<210> 5868
 <211> 6275
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5868

tacaacgaaa atgttgggtca gaagccacct cgacatgaag gccgaagcct tgcagcctca 60
 ccttaacaca acaatccagg cttggtaccg ggtgcagaac ttagtcaaata acggggaaat 120
 tgagattgat ggcaataggc tagatatacc cggcgtggta gcagtggcct ggtcagtgga 180
 gcaaatttct cagatcttct tcaagctcat gttcatagtc ataattgcat acccaagatc 240
 accgaggacc cagctgtctt agagaacatt gatgccagta taagggttact aaaagaccgc 300
 ctcaatcaag gctatagcgt ctatggtgtg tgtattcttg catagttagg ccatatactt 360
 accggtatac aggagtcaat accggtttctg gtgggagcgc agactcaagg acagacaaaa 420
 tgaccgctct tcaatctgca ctggttcagc tgacgcaggc cggcgtcctc ttagagtcag 480

ataaaagtgg caaccaaacc aagctgctgg agtcacacgc catgcctgct tcttgggtcc 540
 ggggtacaat gctggcccggt tgcaactcaa atctccgtgg acattccgcc gtcaaacttt 600
 ctatactgca atcgattggt aaactgctac agcatcggat cactccaatt gttcctctcc 660
 gaggtcttat atctgcgtcg ggagatttga tgccgttatc atacattgcg ggagcgatag 720
 aggggaaccc agacgtgtac gttcaagttg acggcctcga catgcctcgg atcatgaagt 780
 ctatcgaagg gctacagtac gcgggccttg aagctcagaa gctcggcccg aaagaagggc 840
 taggtctgat aaatggaact tcaacgtcgg cagcagtggc tagtttagta ctgtatgaaa 900
 ccaatcagtt gtctgtactc gtgcaagcgc tatcagcgat gggccttgaa gccctcacgg 960
 cacagcagaa agctaccacc cttttatttc ggctgtccgg cctcacgatg ggaggttga 1020
 gtgcgcaaat aacttacttt ccttgctccg aggtctaaag ctggtacagg gtctagatgg 1080
 ccagaagttt caggaccgcc caggcctcat tcaggaccgg tacgccctac gctgtgtacc 1140
 ccagtgggtc gggcctcagc tggaagatct ccttctcgcc catcgacaag ttaccactga 1200
 gctcaattcg acatgcgaca atccgctcgt ggatgtaaag tctaagtcaa tctattctgg 1260
 tggcaatttt caggcagtct cgataacttc agccatggag aaaacaaggc agtgcttgca 1320
 gatgtttggc agacttattt tctcccaagc gacggaaatg attgatccca gtatcaataa 1380
 cggccttccc actaatctcg tcgcgatga tccaagctta tcatttacca tgaaaggggt 1440
 ggatatcagc atggcttcat acatggccga gctgggctat ttgtcgaatc ccgtgagctc 1500
 gcatgtccag tcagcggaga tgcgcaacca agctataaac tccatggcgt tggatcagc 1560
 tcggtacagt atgcaagccg tggaagtgtc gtccctgatg tgcgcttgcg acgtgtatat 1620
 ctgctgtcaa gctcttgacc tccgcgtcct tcataatact ttcttgagaa aagcgatacc 1680
 ccagctgcac tctgttacag agagagttct gtcgccgttt ctgcccagc cagcgttga 1740
 ggacttgaac agatctcttg accagcatct gaccagacc tggccgatga cgaatcgcct 1800
 cagtctgct gatcgagtgc acacggtaat tgagaaagcc atacctgttc tcttgaaaaa 1860
 cctcaaaagc caccgtgggt ccagcttggg cgacttgga acgtggaaat cacaggcacg 1920
 caacttactc aacgttgtat accaggaaat tgccgagtca ttcttcgtga aaccacacac 1980
 cgctgattac ctggcgagg gggctaaggc cttatatgtg atgggtccgac aagaacttgg 2040
 tatcccgttt caccagggtc tcattgaaca tcctactgtt gaaaacgaaa tcttgaacgg 2100

ccgtcctaag aaaacaactg gatcgtggat atcgatcata tacgaggcga ttcgtgacag 2160
 ccgccttatg ggcccactaa tacaagctct tacacctaca gacagctaata ggtagaaact 2220
 ctcgatcctg cgtgattctg gaacttgact ggattaaacc tcgttcctcc gttatcagct 2280
 ggttgaaagc catgtaatat ggctccttta aatatcgtct atgactaggc agataacaat 2340
 aacaaacctg ttgtctttgc agtcaaata agtcacctca cctgtctttg ttgttttggt 2400
 tgggtgttatg gggctgcctc acagcattga gcacatttca gtaatagtga atcaatcatg 2460
 aggctagacc actgccctag caacacagcc cctagagaat agcaggaatg ttcatagcaa 2520
 gcattgcaaa atctcactcc tcaatttttt tctttctgaa ttcttttctg ctagtgcctc 2580
 ctttcttatt ctttgtttgc ccaccgcacc ctccctcttc ttccacgtga cactgtgtgc 2640
 cctacttaga tttcttcata cttatgcact tggaggtact tggaagcact cttggatatc 2700
 tggctgcttg tccaaaggca gtaggaagca aatgccagca aaacgaaagc ctccggttat 2760
 cgcgactctt gcctcctcgc ggagcagacg gtatccgcat cagtctggca ctgtgcctga 2820
 gcctgcgcat caatctgaat tcagacttga acctggacct gatcttcaa taagactcaa 2880
 agttgaagtt gaagctgaat ttggactcca cggtaacaag caccatcaac ctaagccttt 2940
 tacacaggat gggtcgacca tcagtgtctg tcagtttctg ccagggtgaac ttgagccact 3000
 gtcaaaatat gaagacgtca gcaacgagga cgacaatgac ggttcaaata tggctaaacg 3060
 tcttaggatg gtggtggttc tgcgactgcc tctatcactc aacaaaccgg ggccacggtt 3120
 tcagtctgtt cagagagccc atgacacgtc tgtcactgct accgatccat atccggattc 3180
 tggcgcatat agagcagcac taaagcgtga gcatcccaac tctatagttg ccactagtgc 3240
 tgtaagaga ccaaggcgat ctctagatt tcaacagtcc aatgcaggac agctcgaagc 3300
 cgcatatgaa gtcttgatg gagccaaagc tcatcaagga gtagcgggtg tcaaaaacaa 3360
 aattccgtct gctacgaata atacattgcc ctgccttca aaaatggctc ccgctatggc 3420
 ccgatcctct attattcagt tctcgttctc cagtaccggc tgcagaatcc cttctcttga 3480
 tgacaacaat actgaccaag ggccttctcg tcttgaccct aatactcctg agttgatccg 3540
 ttcccaacct tactctggcc gcatgcgcc tcggaccag ctgcgtcaac accttcgcc 3600
 actttacaag cttagtgaac tcttcaagtc tcttacggag cgggctatcg atctggggct 3660
 cgacaaagtt ctaactcacc ttggtaata gcgacttcgt gttgctaccg tttgttcggg 3720

aacggaaagc ccgctgctgg cgttggagat ggtaaagag agtgagtgtt gcctacatat 3780
 atcctctact ttgccgtacc tggaatttg gaaactttta ttcattggctt atagatttgc 3840
 agaaatattt caaccgagat ctcgatttca agcacctctt cagtgtctgaa attgtaccct 3900
 ataagcaagc ctatatcgag cggaatttcc ggccccgtct tttgtttcga gacgtagctg 3960
 agcttaagga tcgggtcgcg tacgttactc ccgtagaaa aaaatccctt catttggttc 4020
 taacttgaag aaaactagtc gaacggccta cggtctctg gaaaaagtac ccaagaacgc 4080
 cgacatgctc atagccggct tctcgtgctg cgacttctct ggctaaaca actaccgtaa 4140
 ggagctcgac gaaacaggcg aatctggtga tacgttctgg ggcataatct gctacgcgaa 4200
 gatctaccgt ccacgcatgg taatccttga gaacgtcaaa acagcacctt gggctaagat 4260
 cgagggccat tggaacgata ttgattacgt cgaggtccat tctgacgtcg atacgaaggc 4320
 atactatctc ccacagacta gagagcgcg atatatgttc tgtgttgaca agcgtcttct 4380
 ttcccacctt gcacagaacc accatggcct gggcttgac gcagatgaaa ttggcctgaa 4440
 catgcggcgc gaatgggtag aacttttagc ggcatthaag cgtcccgca gttcgccggc 4500
 tggaatgttc ctctcgacg cggaagacag acggctggag cagatagaga aagatatggc 4560
 gcagaagata gtagcctctg cagccacagt ccgggcaaca gttaattggg atcggtacca 4620
 agtgcgacac cagggttata gactaaagca agggctgggt catcgtcgac cgataagcaa 4680
 gtcccaggat gatgggactt gtaagatgcc ggactttgcg tggcaggttt ggatgcggtc 4740
 tctgccggag cgagtgtggg atacgattga tgtgaatttt ctgaggaagt tgggtggacgg 4800
 ttatgacatg aactacaagg agttgggaat cttctttcc aaatctgcca tgcttcgttt 4860
 tcacaatagc tgattctgca ttaggaggtg tctgaatta tctcaggac tagaccgaga 4920
 gatggattcc cgcgcgtttg ggatcgtcgg ctgcatcacg ccttgtggta taccatata 4980
 gacgactcga ggcgggcctc tttgtggcct tgagtcactt gctctgcaag gtctgcctct 5040
 agacaggctc ctactgacgc aagaatcgca gcgggagttg caagatctcg ctggcaatgc 5100
 tatgagctct actgtcgttg gagcggcgat tctgtcggct ctgattgctg gtcacaaggt 5160
 gttgagaaag ggtgacttct caciaacatc aaagcctact tcacgcactc agaaaagcag 5220
 gatcactccc caaggcgatg tcgcttgact tcaagcaaca tgcactctga cccggatacc 5280
 gtcattgaca ttctaaagct acgggagcag gctactacta gtgcccggtg ttgcgtgtgc 5340

gaaggacaca attcgatacg ggcaagtacc ctaaaatgca acttatgctt atatacagcc 5400
 tgctccgagt gcagcggaaa tccacagcat gcttacgaac gctgggtgga tctaccacgc 5460
 accgtaccac tcgatttcgt cagttctctc cggctctatct tgccaggtag actagctgta 5520
 cgtgggtatca cgcccgacag ctacaaagag ctaaagtcta actcctacat acctgctaaa 5580
 tgctgggtcag aattctttgga cgccgtatctt agggctgttg gcgacgagct ccgcttttcg 5640
 gacatcaacc gaagtgaagt ttggactgtg acctacgacg gcaaatttc cgttttgaaa 5700
 ttgggttattg agccttttgg tagtatcact tggctctttt ttgcaaagcc gcgcgaaaca 5760
 gaccctgctt tatgtttgat tcgcgagggt ctctcgaaac ccgtagctcg aatgaccctg 5820
 ccggtgcctt cacatcaagc aggggtcaact tctagctcta tcttggaagg tgggacttgg 5880
 gaaatatgtg ccccgctgtc ttcaagctgt tcattgaaat tttttggaac aggaagcaag 5940
 gttgactcct acgaagcaag atgcggtcta caattgccg cgtacaaaaa ttcgcagggt 6000
 tggagccata ttattgtcca cgggtgtgat aaagacatca aagacttggga agttgatgta 6060
 cgtggcactt atgagcttct tcctgattgc ggtactgcaa attcatgtct gcatagaaga 6120
 ccagcaaccg cgggtggaaa cccaaccatc tacctcttct tggatccgac aaagctaggc 6180
 gagcccacaa atgactcgtt tgtttttgca ttagagcata ggcggtatccc aggctatgcg 6240
 actcggtatga ctattgctga ggtgtcgcac acgtg 6275

<210> 5869
 <211> 3583
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 5869

aagcccgtct ttggagttgc tgtccaccac gggctagcgg gaatattgtg tctcgatgag 60
 gttgccgaga tttggtttcc gcgaggcatg cttggatggg gaggagcttc aaatatcgtc 120
 tgggtgggtaa accgagagcg aggcgtggcc ggtttctttg cgactcagca gatgccgttt 180
 gggaaatgcc ccatcaagaa cctggtgaat gcttggaaga aggacttttg ggcaggcttt 240
 aatgcataaa agaaaagatt tcactagggt actgggaaaa tgggcttagt ctggcaggct 300
 cctcatcccc ttgcaatgcc gaatggaaac agatattcaa gccaaaacct tactattcta 360
 ccttaattta cggctagaag cggacaatcg tgtcagctcg tagtcaaact ttgaagaaaa 420

cactttttgt aaactaggaa gatagatcaa tgggtgcattt gtctatccac caactcgctg 480
 cactaccag ctcatgccgg aagcgccgca ggatcaaaga ggcgatattg gatccctgat 540
 gccgttgggc tggtagcttg cactcgacac aatggatccg actgaactca ggaaggaccg 600
 tggaaactgt agttgacatc gtggctttgg ccaagatgtc gccaaaatgc ctttcttcaa 660
 gattgaccac atgccccgcc actctggcca acattggccc cgtccagggg ccctccatat 720
 atggacatat tgacgaagaa tagcgagagc ctgggtggcg gtggcgatgat tacgacactt 780
 caaggctgta aagtagagtg gcggaatag accactatct atcatgaatg ttggatcgac 840
 ttcgcacgtg tccgattgaa gagggcagtc ggtgctgtgg acgtcgctgt accgctggat 900
 gatggacttg aaaacgtgga gatgcgcac ataggccgtc tctttgacgg taaagcaggt 960
 ggacaggagg attatggcca cgtcggcgta tgtccggagc atcagcaaag caagcctgtg 1020
 ctgccgtgct acggacgcaa acgcagattg tattgagtta tcatagcttg caatccagtc 1080
 ctccaccgca gcttggaggg atttctgctc ctcgagcatg actgcgctcg gcgacggtgg 1140
 gtgtgcgtgg gtgcttcgag taagacgctc gacttgcattg acgagatgca tgaccgaaag 1200
 gagaatggga cttagggctt gacgagcctc gtcggccgca gagaagcgac gcggaagata 1260
 ggaagcccgg ccgtaccgga aagagggcac gaatgattct ttctgctggg ggccatgccc 1320
 tagcataagg aattggaggt tcagtcttgc gaaaacctca ataatatggt cgtcaaatag 1380
 ctcaggatca tgcttgacaa gaactgtacc agtgggtgcc gccgatctgt ggctctgacg 1440
 ctgtagttgg tacagcagtc tgatccctgc cgaaaatgg actttcatgg cgtccagatt 1500
 gccgcgcaga atctccaggc agatgaagag aatacacgag acagtgcgca cacgtacgga 1560
 tgtggcgctc tccagggctc cggttggtgag tagggctcgg atggcatagt tgtactgcct 1620
 tagcaggaag ggcgccggtg ccaccatggc cacgttctcc cgtatctgcy ccagggcgaa 1680
 cgaatcgtag gcagaggtta aggctatcga ggcatgcagc actgctggct ccgacactga 1740
 cagcgtggag gacgagtgag ctccagagat gggaccgaa tggtcgagtg agtttgtccg 1800
 tcagcaggac acggaagcgg tccaggcagc gcctctctc ctacgcgagg ccaggaagag 1860
 tccgcagggg atagaccggg gagggaaagta gtctcgttga cttgggctgg cccagatgc 1920
 catagccgtc acaggccctg ccggtatcca gacaccgacg acatgacggc ctttgttcat 1980
 cgcatttaac ccgccgaacc ttgcatgttc gacagccga cctagtctcg gccgtgctct 2040

tgcgcttcgc catagtggcc tcttaagggt tgctgtgggt tgaagatgaa tggtcccccc 2100
 caagtcacat cttgaaacgc gccggtagag gagtctttcc gccaaactgcc tggctccctg 2160
 gcccttcca aatctccaat ggccctgtct taaaccgat cgaggcgggt cttatgctag 2220
 ccagcaattg gttgcgtcgt gttctttgga tattgattgg tcatgagcga tcataagcgc 2280
 ctcaccccat ttggggcaag gcaattctct acgccacaaa ggacccttat ctgacgatag 2340
 tggctcgttt tcgttagcat caacgacaga tctagaatat gttggaagggt catcaacgga 2400
 gcttgattta gtattatgtc cgccaactcc gagcgttgcg tatagtggta ccgatataat 2460
 aagaggcaat gatcactccc gaccttgggc attcagtcac accatcatca actgccattc 2520
 ctgtccaata catctttggt ctgactcttt gatactatgt ctattcctac cagagccctc 2580
 ggtcgcaatg gccctgaagt ctctccgtg ggccttggcc tcatgagcat tgggtggcatc 2640
 tacggcgcag ctcccagcga cgaggaccgg ttggcactct tggaccgcgc ccacgccatt 2700
 gggcagtggt tctgggatac ggcagacgtc tatttcgaca gcgaagatat cgtcggcatt 2760
 tggcgagcaa agaaccctat aaaggcaaaa gatatctttc tcgcatccaa gttcggcatc 2820
 acgatgcgta aggacggcag tcaaactgtc gatactccc ccgaatatgc cagaatcgca 2880
 ctgaaaagga gtctggagag gctccaaact ggaaccatcg atctgtacta tgctcatcgt 2940
 gttgacggca aaacacccat tgagaagacg gtcgaggcta tggcccagtt caagaagtca 3000
 agtcgtctgc ctctcgtctt ttcccgaact aacacgaatt atagggaagg caagatccga 3060
 tttctcggcc tcagtgaggt gtctgccgac actcttcgcc gtgctcatgc tgtccacccc 3120
 atcactgccg tccaggtcga gtatagccca ttacattgg acatcgagga tccccgtgtc 3180
 gctctgcttg agacatgtcg tgagcttggc gtagccgttg tcgcctacag ccccgttggt 3240
 cgtggactgt tgacgggtag atacgtcacg cgcgagagca ttaccaagga ctttttcctc 3300
 agtgtcttgc ctcgttactc cgaagaaaac ttcccggcat tcgaggctct acgattcata 3360
 naaacgtgct gagagaagga gtcacacggc acaggcaacc ctgcctgctg cttcccggag 3420
 cctctgtatt ccattcagga cgcggcgaca agtcttaatt agacacggag tgccattcac 3480
 tacgtgacag gacgttttac caaccgaatg caccatagtg gaccgtttcc ctggtggcaa 3540
 gtaatagtaa aggctagcac gatcagttca aactcatgga ccc 3583

<210> 5870
 <211> 3682
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5870

tcatgcagct ctctcggttac attctggggc gttaacttct cgcctgatat gtgtatcagg 60
 gggaactata tcttgaagac tccgtggcgc atttccgacc aagacgccag cgygccaacg 120
 gcgtttctaa caaactcaat tcgataaggt ggagacaagc ttatttgaag agtgccatct 180
 aagcaggagt ggttcgcatg attcattaca ctatctttga tcaatagaca atactgggct 240
 gatggtatca ctcatgttgg tacttggcct gaactcgcgg ccgtccaaca atacggtata 300
 ttattgagct cgagaaagaa tcgagcgatc ctttcctttc tctgccgcca atgattagaa 360
 atgagcccc tggtctcatt tggagatctt gattaatact ctctttgatt tgatttaggg 420
 ctcaatgtgc tcatgcaacg attcaaagaa actacatata cgaatattat tccagattca 480
 cacgtccctt acttgctttc aggactctgt catccaacct atggcctatc ctatagaaga 540
 atgaggatta tggtgtattc gtgattaggg tcattagcac tttggtcgaa aaggactttt 600
 caaaaactac tagcaagcac cagaccctt gtaatagtat cagccaaagc gaaactatac 660
 actcacgcgc aaggtaattt tgcgtttgat tgtatataag atgcctgatt ataatagtat 720
 gggataagat aaaaagcaac ggacgcttaa cacaaccac ctcaggcccg aaccaagcct 780
 accttctttt caactacacg tcggtggcaga taccactcc ccaaattctc catcagtagt 840
 acagtacgcg aggcccacaa cctagtagca gcgagaatca gtactctcaa acggatccag 900
 ccccaaagtg actcgattcg cattgacaaa ttccttgagc tcataaagcc cctcatggtc 960
 cgcaaaattc attgtctcaa gcggtttcgg gtcactctggc tcggggagaa tcccagccag 1020
 atgagcattt ggaccagtgg ctggataccc gcacgaattg atgcaaactg ctataaggta 1080
 cggttaattg cgtagttgtg tgaggaccgc gtgccagggtg ccagattgca attgtaccaa 1140
 acataattcg atgtgcttga gatgatcttt gcattggcca atcagcgcg ggaagtggtc 1200
 gaatctgatg aggattcgta cgaggcgtag ggaggtgaga cggcatgact cgcctcagcc 1260
 gctaataccc aaagggagaa cgtccgtact gccaatatgg agagctgtta aattaggagc 1320
 cagctctact aacctgagga gatgggcggc gtgcaaacta tttggaagag cggcatgcgc 1380
 aggaagtacg ggagttcccc agtatcgctg tccccgctct tgggtatagc cagtgacatg 1440

caaacctaga tatttcaagc ggcgcagtat attctccatc ggaatgtgca gtgaagtaga 1500
 accgctggag aagaagcatt taaagtcatt agctacagga aagaaaagct caagtccttc 1560
 caaacgcggt agagccacat atcgtagggg agaacaatt gctctaatag cggtagcttc 1620
 ctgctcgcgt gtcaaggact cgcttgaggc tctgaatttc aaaacgcgta gattggatag 1680
 ttgggcaaga caaagcgaca acaaccggc aagatcctgg atatcttgac cgaatgatgt 1740
 gctgtgataa gagggccatc ggcagtatcc agtctctaga tggcggacat gtgcggagta 1800
 tttgcttctt gaaatctcag caagtctctg tagggagttc cggccgcgta tcgaggagtc 1860
 agccggtgct acaatgtgtt tgaacaagtg gcttgacgca gcagcacaga aattcctgct 1920
 gaccaaactg aaggtcttga gttctgaccg agcactttgc ttgagcgcat agggaaagat 1980
 atcgcataac gagtagtccc tttccactgt tgccacctga tcaacgacct caggatcaag 2040
 ttagcacaca gtctgggggc ggcacaggg ttcttaccat gtggcaaata tcgacgggaa 2100
 tcaccagtgc catatttata tgatagtacc gctgtggtat tcaataagag attggtgaag 2160
 tttcgcttct gttggtgatt ccttttctcg ttgtgcatca gtgagggatt gaatcgccct 2220
 gattgagttg agaggcgcat gcgactaatt atatacgagt ttcgtgactg tcagactgat 2280
 ttagccgcgc actgtgccag atcctgcctt ggtccaatta ggctcagcca cactgaaatg 2340
 gttgtcagta gatactccca accatgctga agagtcggcg caacgcgtga caaggctgac 2400
 ctggtcgcca ttcccagctt gattcgcggc cgcggtgga aagattggat gcgccggcgt 2460
 cgtgactggc caattttatt ccattggctga taccatcc ctagttcttg ggcgagcctg 2520
 gtcttcgttc ccctaagaaa ttagtccata ccgatccct ctccagagtg ggacagtgcc 2580
 acggcacgaa aatagacttg ctcgagcgga ttcagagctt ttgagaccct tgcgaaccg 2640
 atgcatacaa gtatgggcaa acagtgacca cgcctctcgt gcagtcaaag attggacggc 2700
 gaaacatcca tacatttcca cccacaata tagagttctg gacattatac cttccctct 2760
 caccttcgcc gaaacgtgat agtccttga gcgggtcaag cgtcctttac aggattcctg 2820
 atggacagcg actattagga cgattgacca gagcgcatgg aaggattttg tatcaagttc 2880
 atggctgaat agatggcgat gtcaagtatc aaagagtata tcaccagtg catggcta 2940
 gggcttacct agacagacac tggctcaaag aagctgtgta agcggcgatt gtggctgtta 3000
 ttgcagccat atgatatcca ttaaccataa actggtgctt acagagtta gactttctca 3060

acttattttc caggcaatgg actttttatt actctccaca atgcggcaaa cttgagctta 3120
 aaaatcctct tggctggcta atgcactttt gtaaacctga ctaacattcg tctccttct 3180
 tcaacatcgc gctattaatc gtctcccata atagaattat ctacacctca taataactgt 3240
 ccttttatct acattctatg tcatagtatg ccttttactg atatcctgtt tcttttttta 3300
 cctttctatt cctctcatct tcacaccgcc atcttttctc gtatttaata aatctttatc 3360
 caaccattac tacttctttt atcctcttta acttactcat taatttattt ctcatcttac 3420
 tctaaagaaa atctcattcc ttactttttc tataacactc tcttctctct cegtctctcc 3480
 cttactttct tcttcttctt cctcttcttt ctcttcgttc aatccactca ttacttatct 3540
 ttatttctcc atatctctct tcccttaatt cactcttacc tctgacttcg ttctatcgct 3600
 tctctactta ctctaaatca tcttcttoga tacacctact ttatctatta atacctaca 3660
 caccgttcat tctaactctt cg 3682

<210> 5871
 <211> 3006
 <212> DNA
 <213> Aspergillus nidulans
 <400> 5871

cattgcagaa gaaggatgca tgtacacagg agttccctcg acaagcgtct tatacccttc 60
 ctgcgggtcc ttgcgtgctg aattgcggaa aaaccctgtg caaagagcct gtcgcacctt 120
 ggtagtggtg cgcccgcatg agacgatttt gtggtgatag cgctgcatga tgccaaggag 180
 ttgctggcgg acgtcctgcg cgcggcgaat ctggcgtgct tggatgaaat tttcgtagca 240
 ccaggcgttg ctaaaagccgg atctttttcca ggcgttgtaa acgttgagta acgttagatg 300
 atcgccgtgg gggtcgtgaa atttggcctt cttttgatct gcttggtgct gtttttcctt 360
 gggacggtag aagacggatt ggatggagag catggcgacg atggagagca tttcctcaga 420
 gcagcccatg tcgacggaag caatcaagac cttagctagg gctggctcca tgggaaagtc 480
 ggccattttg cggcctagac gtgttaaaag accttcgtca tctagtgcgg atagtttttc 540
 aagctcttgt aaagctgtga gcatggtgtt tgtcggcgga ggatccataa agtcgaagtg 600
 gagcaggtcg ttgatgcccc ttgctttcag catgaggatg gtatgcgaca ggttttggcg 660
 ttgaatgtcg ggaatagtgg tagggagcat ctcggttgg tatgcggctt ccgtgtagag 720

gcggaagcat tttccaggac cagttaggcc tgctcggccg gcacgctgtt tggcttgccg 780
 ctgggagatt ggcgttacga ctagagagtc catccccagc tttgggtcgt aggctttttg 840
 cttaactaaa cccgggtcaa tgacgtaaaa gatgttgctg attgtgatgg aggtttctgc 900
 gatgtttgtg gcaatgacaa ccttccggcc gccggggggt gcagggtcga atatgcgact 960
 ttgcatttcg ctgggtagcg ctgagtagac tgggaggatc accaactctg ggacgcttgg 1020
 accgagagct ttcattccgt catataaaat ctgcacgct gtgtcaattt cctcttgctc 1080
 ggtcaagaac agcagcatat cgccaggagg ctcagtcaag tgaatctgca tgacgggtgat 1140
 gagagctgca tctaggtagt ctgattcagg ttctttcagac tacatgatct ccacagggaa 1200
 tgtccgacca gggatagaga agatgggaca gccgtagaag tactcagaga acttatcagc 1260
 gtctagcgtg gcggacgtaa caatgagcct caagtctggt ctccgcttga gtgtcttctt 1320
 cagcagccca aagaggacat cagtcgcgat gggtcgtcgt tgagcttcgt caagcataat 1380
 cacagaatac tttttcaagt ctgggtctag caaaacttct ctctggagca ttccatccgt 1440
 catgtacttg atcttcgtct ctgggctagt acaatcctca aaacggattg tatacccaac 1500
 ctctgcacca agcttgccagc cgacttctc agccacacgc ttagcaaccg acatcgagc 1560
 aacacggcga ggttgggtac atccgataat tcccttattg gccagcctg cctcagccaa 1620
 atactgagtc acttgcggtg tcttccctga cccggtatcg ccgacaacaa tcagtagctg 1680
 attttccgct acggcctcca gcagctgctg gcggaatttg tagaccggca gactttctct 1740
 ctgttgcttg attgacatat tcgtccgctt tccgaatgac ggggttttgc ccatcgtgac 1800
 cctcttccac tccggaaccg ctctgctcgt ccccgtttgc tgagtagaac ggaggtcggc 1860
 cgcaaatttt cgctcactag ccataggatc ctgccactgc gcgttgagat ccaccccagc 1920
 tgctgttcg gctgccttgt cctgggcctc ctgttgctg agctctcttc gttccttggc 1980
 tagatttgta cctgccattg cggagcgggt catggatcca tctggagcct tgacaactcg 2040
 gataggagac agctccagag acatcttgggt ctgaccgcc aggaaaggag gttcttcgtc 2100
 tctaacttcg atatcaatgt ctctctcttc ttcaaagtgc ccctctccgg tcaaggtagc 2160
 atgatattct tcgtcaatat ctgggtaatc agctgcggaa acggccccgg acgcaattaa 2220
 ctgcttgatc tcccagcgt ctggggatgt tagacgctt cggttcttca tagatcggcc 2280
 gtcggattcc tcaataacag gcacatccgc actgaggttg ccgtatctat catctgatgg 2340

catgccatct agtcgctcca tattegctcc cgatgcaagg cgcttttgcg ggactagatc 2400
ctgcccagtc tcttgggtcta cctctttcat ggataggcca atgcgtagc cttgtatact 2460
gatcactttg accttcaactg gctgaccgcg agataccaag tctgagggat gattcacacg 2520
cgtaccctcc tgcacgcag atacatgcac cagcccgta acctttcccc taacgcccac 2580
cagggttcaca aacgcgcga agtctttcac acccgtaact cgcccgctcg agattttata 2640
caaaacaggc gagtcacga gctcaacagg cggagggttg cgaaagtaat cttcgctcggc 2700
tcgtctcctc ctccggcggt cactccgtcc atcgcggtat tcatcgatcat ttgaggaccg 2760
gccaccagtc gaccggcga actcatccac tggatcctca tccctcttat tataagccgg 2820
actccgcgat ctcgatctcg acctcgaacg ataccgatcc ctccgctcggc gccggctata 2880
atcatcgta tctggactca aactaccct ccgcttctc ttcgatactg gccgtgtcaa 2940
tgttattgta gtcaatttga acctgacctt cccacacacc cctcccga ccttgctcgt 3000
aacatc 3006

<210> 5872
<211> 7072
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 5872

attgtcaacc ggaagctttc accaggctgc acgagagagg taatgtcggc ttcaaactgg 60
ggtgtaaccg ccaacatgct cggcaaccag gtgctcattg acatagacgc ggccatgatg 120
cgttgctgac tccagacgga ggaaagcgcg ctgatctgcc cagccccgtg ggacagtcac 180
agtgcgttgg tagtataccc agccgacgtg atcgtgaatg gtctgtcga cgaagatgtc 240
gttgtaggat gcagggacgg gacattccag gccctttggg agcgccgccg tccagggagc 300
agagggtgctg tttgtggcgt cttcgagggc aaaggaccac agcccgtcga gagaaacgag 360
gtctctcgtc gacgtctgct ggggtttcag gttgatggtt agggcttggt gtgttggcgg 420
gagctcgacg tcgaggagct gaggcgacgg gacgccgagc gagggaggga tgagtgcgag 480
tgacaagaaa gataaactg ggaagaccct cattattggc gactctcgct tggttgaatg 540
gctacgacga tgggggtataa gttgtcagag ctaggagtta gttcgacctc tctgaacaaa 600

cagtgattta tatgcttctt tctcgtctac gcggcaattg cctaccgccc caacggcttt 660
tgagatcctt ggcagcatgt taatataatc tctaatactg caactatccc gctgcgtgct 720
ccattaccat atcacggtct ccttgccaag gcactatatc acttccccgc gggggacaaa 780
tccggggagg acgccccgga tgtggagaga cggatagtgc atgggatgca gatcaactgc 840
cgtgctgcat agagtgatat caaagaccga gggtttgtct gttcttggtc tgattggtgg 900
at ttgcccag tctgcattcc tctgcctga ttaagacgaa gcatccccag gatagtctct 960
cgtcggctaa ccctgatata ccctgagtaa gcaccataca ttctcccacg tagttttccg 1020
gccttcatta tcatgagtca gttaaaatga ttgtttcccc tgaaaaagta aagcgtagag 1080
ttccacattt cccaaccatc gcctactcca aaccctcca catcccgacc cctcgtactt 1140
ggcctcatc atttcagcct cagtgaagc ttgctgttcc ttgtcagagg ctatctcctt 1200
at ttgagatt gaaattactc gttctgcacc tctgttggtc atcaacgcct tgtggtgtgt 1260
taatgttggt gctgtatgta cgcattgtct agaagaggat cacgttaacg accacactaa 1320
caccaattca gcaagacttg acgagcagat ccggagccca gaatgcgacg caagagtcac 1380
ggcgtgagt attgcatcat aggatatgtg aattagggtt tatctcgtac actggcacga 1440
gcatagaatc taaaaagcag gcgacactgg tacgcctggc acctgcaccc gctatcttcc 1500
tacgccttgt cctcttgaa ggcttcaatg tactcttca ttatgcatca tgttgccggag 1560
agctcgaagc aaaaggggag gagtcgcagg gtgctaagac ttctgctacc caacacggtg 1620
gcgcatttcg tgttcgtaca gtgagcattc tcgtctcagc atgggagtca atatactgta 1680
catgaatcat tttatcttca ccatcactgg aggccagata taccatacag tacacagcaa 1740
cggaccagat acaaagcgta cttagttctg ttattcgtcg tcaacctggc tcccggctaa 1800
attagattaa tccattcacg ttgggatctg cgctcggcag gcactgcggc aatgagctcg 1860
ccaatgtctt gcgggggttg gggcgacttc ctttaaggtaa gtggatttcc tgtgtccgcg 1920
acgtgttaag atgacgctga gatgtgcctt attggtatat ggggaagtac ctattcaa 1980
gcgtacgatg gggttggttc aactccagta cttagatgtc ttagtgctta ggtccggcca 2040
gtagtggtt catggagcct agatggtagg aggcaactat aaaagttttt gatcgcgggc 2100
ttgtgacttg aatcggttgt ctatcttacc tacttaataa attcgaggta aaattcgagg 2160
tgaaaaaggt cacgaatatc acccacaaaa gaaaatacga tcacaaatga cctagagtct 2220

ccgttacttt gctcactggg aggtttataa catagaccca tttcgcgcat aggccttgcg 2280
 agttgcaacg atgaggaggc attgtcggaa ttcaggagat atttgtgcct tcaaaatcat 2340
 gccctcacta ggccacatac tatatggtct gtctagtcaa caaggacgga acatatcagg 2400
 aaatccgacc tgagatccag attttctcat ctgcatctgc ttccattgac cgtaccgcca 2460
 gagacactgt cttcttttct agctgggtca gcatgcactc ctacaacttt tgctctcacc 2520
 gtcaaatgtc cagcttcagg gaatgggaca ccccgatccc tcgcaacgcg gacattctcc 2580
 tccgtagtgt catgcaactg gtagtcaaag aacgttgcca aggaggcgag ggccaagtaa 2640
 agctctgcgt agccgagact gtatacggaa cagacgttag ccccgctac gatgatgaag 2700
 ctgtggaagg gaatagattg tgtaataggc gcaacataac atacttgata ccaatgcatt 2760
 gccgacttcc tttcccaaac gcggtgatga atcgggtcaag tttctctccc ctcttgctag 2820
 cttcaatcca ccggttcggg ttgaaggaag cagggtgtgg gaaaatcgag ggatccatgt 2880
 ggacaaagta gttggacata cctacggggg tctgccagat cttgtcagta ttcacggcgc 2940
 tatggcagag gacggcaaca tacaccagcc ggaatgacgt agcttttata agtcagggct 3000
 tctgtaggtg atattcgtgg agaacggata gaaaggccgt gagagaggcg gagggcctcg 3060
 ttgactactg cagtctgtcg gctttcagta catgttttgc aggtcgtata tcacagggat 3120
 gctcaactca ccaaatacgg caactgtca agttcagcca aagacgcttt cttaacatcg 3180
 cgtccactgg cccgaacttc ttcgcgtata gtgggttagaa tacccttctg gttgatcata 3240
 tggaacgcgg caactgtcaa tgcattagcc gtaggttctg tgccgccact aaggaggatc 3300
 atgccctcgt catgaatcct cgacatcgtt cgttcgcaag cgggcagctt tgggtcagta 3360
 agtgcacga acatgggtcca ttcttccttg cttgatccag tcattttgag cgccttagca 3420
 gacttctccg ctactcgttt ctgtattccc gcaataacgg cagtcgctgg tttaacaatc 3480
 gcaaaggccc ataccggaac atgtcgaata accgtcaaca cgactggaaa caatcgactg 3540
 atatgatcta acttttcggt ctccataatg gcgtcgcgca cctcgctgtg gaacgacccg 3600
 tcctcgagga agtcgaaact ctgcgccgtag gagtaggtgg agattatatc tgccgtcaag 3660
 gccgcaaatg cagcgtgag atccacctca gtgtcggttt ggtagaactc cgcgagccgc 3720
 tccatgagcc tctgcacttt tctcctgata aggggtgata tatctctgat tgagcgcttg 3780
 gaaaagaaac tgctcaatat tccccgacgg aaccggtgat gtccatgggtc gacgggttgcg 3840

atcatagagg ttggtgatcc aaacatgccg acgaagttgg ggtctttgtt gcattttcgt 3900
gccgaggtgt agatttcacg gtagaaatgg gggcttttga cgtgtatctc ccaaggagtt 3960
attcgacaaa taggcccttc cagcgagtca acacagccat gatcagtttg gtggatggag 4020
caagtaccgt aaacttggtg catttgctca atctcccaca ggaactttcc ccctcgaacg 4080
acatcgtggt aaaattcgta cagaccggtt gctgctgtga tttttgggcc ggggaatctc 4140
gtaagaggat ggaagaaaag gcgatagact gttctggtga gatagaaaga tatgatgagc 4200
aacaatggca cctcccatcg catccactgg gcaacagtca tttcgggcat atgctgactg 4260
cgtagaaagg ggaccgggta gtgttagaag tctgatgata atcttattat ataacctcca 4320
agaagatttg ctttctgctc aagacccttc agaccactg gtatcgccct atcacaagtc 4380
tatttgataa agtctaacca taccagcggg atctagggca cagttatata attactcagt 4440
ggtcgcgcaa ccctactaaa gttacatgtc taataagaac ccatatggtg caggttcaaa 4500
tactacaggc aaggcagatt gtgttaactg aaccagaatc attggagccc ttctagcggg 4560
tatagttggc tcaacagctg agcaattaac ttcgatctag agctctattc tgatctggaa 4620
tgaacacggt atcaccaacg tcgtcgctat cagagcttta ttggttctgg gtttaaattc 4680
agtttgtcag aggctcctaa ttggctttgg ctatctcaat tccgtttcaa gccatgggcc 4740
agcgagtggg atggtaattt gtcggcacat ttcatttcag catgaggggtg acgctctatg 4800
ccgccgatac gcataaaagt ccaacaccta actagcgccg ctaaccctgg ctaggagcgc 4860
atcatggaca aaatctcggg tcaagatcta gccaacatcc tggtcgactt tctcaaacgg 4920
ttcaactaca atgataccgc ccgcctcccc tcggaagagc tgaagccttt gtatgacttc 4980
gtccttccgt acattcccta caatgagaaa atcgtccgag agctggccga atacgcccac 5040
tgcacgttcc cgttccttcc gctcgaggtg cgccaagccg tggcccttta tgacacgttc 5100
cagatgtcgg tcgacgacct gccagtcgag caatacgaca gtctccatga cctctgtgtc 5160
cagctctcaa gcggagaaac agtaaaacac ccggtttgga atggattttt caactctctt 5220
ccaatccttc tccaatatta cgggtccgtac gcgcagacga ccctttttcg cggggcgctg 5280
gaattcatcc aggccacttg tctcgagagg acgctgttcc gcggatttcc cgggtcgtcg 5340
taccctagct atgtccggcg catgagcggc caaggtcccg tccaggcagc cgtctgcttc 5400
cccgaggccg agttcccgcg ggaacaatat ttgccattaa ttgcgtcgct ggaggcggag 5460

ctggaatact gtcgactaga aaatatgact gtctaagact aatttggaag tcatgacgcc 5520
 tttttggctt agcggatatat ttaccgata gttatgagcc cggttctcca ctaccagtga 5580
 aaattcctca taccacaccc aaggatcaag cgttcgaatc cagtttgtgg cattgtacct 5640
 agtataagtc ggtgtagaa gatatgaccg cattgggtag tgtccagaaa acatccaaga 5700
 tagctgaatg ctataaagaa atgatacagt ttgggtgtct gtaatataag gatcatgtgt 5760
 aatacaaggg tatcatttgt attactttca gtatggaaat acaagtcttt catactgagg 5820
 ggggtgtgctg actagaaaat atgactgtct aagactaatt tggaagtcac gacgcctttt 5880
 tggcttagcg gtatatttta ccgataaata gatataaata caaggacaaa ataaagttaa 5940
 aaatgattcg cacctaggag agtctatcaa gtgtatggat gggcttgtat gcgccctgcc 6000
 tgtatgtacg tttgtacctg tacgtacctg tagcaatacc ctaagggcct tgatttaacg 6060
 ttggctttgt gattacaatc ggcatgggtgt ttaccttgca ggaggggtct agtcctcatt 6120
 cttggatttc ctgaagcatt cgtactgctg attgagcctc atgaactaga tcatttagca 6180
 tcgctaggcc gcatgagcga agagtcagtt cagtctaagt caattgtatc caatccgcag 6240
 attgatacac agcacaaact gcgcggcatc aatagcaatc aatctgctaa ggcgtggcca 6300
 gtcgacgata ccaagtaccg taccgtacga taccataact acatatattc agccttcctt 6360
 tctagaaggg cagacggctt ttatatggag tactcagatt acttaaataca tgcaggagat 6420
 catcttatct agaccgagct ttttattgga atatcaggca tactgcttgg cggaatacct 6480
 agcgtacgta cgcgtccatt caggttcatg aagatgccta ccctaataaa tatccaacag 6540
 ccatcaaaca gttttccagt ccactccgcg ttgtcagata cgcagcctac tcgcaagcgg 6600
 gcaattcctc aaacacacaa gcctcgggtga catcggtcga gacctcctcg ggctcgcgcg 6660
 cgtcggcatc ggcttcgtac gtggtgcaga tggcactgac atccgtcgcg cagttggagc 6720
 tgtcaatggt caccacatcg ccaaagttcc cattcgcccc ggcaatagtg ctccctgata 6780
 cggcaacgac gttggtaatc gtcgctgagc gctggatata gccgcatgtg ccgcacgatac 6840
 ggtatagttt gccaaagtcg tataccgtga atccgtcaac gatgacctcg cttcagagt 6900
 tgtgctgcat tctcatcagt caaccagcga gcactaactt tgggaggatt cgaagtggga 6960
 ggaatgctgc ctacctggat gaccttgtcc tcggggccct gcgcgcctnc ttcagtgacg 7020
 acgtaaggtc cgctcccttt cttcagggag agcgcattct cgcagacttt tt 7072

<210> 5873
 <211> 7594
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5873

```

gaattgtatg ttcaatagtg aaattatata tatctaagat gaacgattga tatgggtata 60
ttgaaaaata ggacataaaa agctaagcgt aacgagtgat catccaacaa cccatccgta 120
accgtaaaat aaaaactcga caagattcat cgtccctcca ggaccaattt ggtctgactt 180
gagtctccac tactgccgcc tcgacgaaca tgtccgtaag cgaagacgga gctgtcggcg 240
acgttctctc ttctcgaatc acctcagtcg taacctcaat agcaccaggg cctcttttct 300
ccccatgac cgacctcagc ccaggcccaa caccacttc tgtatcgata gtatgcagac 360
caaattcggg gtcgtgctgg gaatacatgc ctctgtttgt cgacctagg cgcatcgagc 420
gtcccgctgt tgtgcgggtt ggattcatac tgtatttgtt gtagctgttc gtcgaaagga 480
atttggggaa taagcggctg acgagggggc ggaggaaggg caggcaagca catatgatcg 540
ctacgttgca ttcagctgct gtccagtagc cgacgccaac gttgctccct gtttcgcttt 600
cgtaacaac cagttgcgga caggatagga ataggaaga tggggagagg cgtacaagaa 660
gtatcagtac tcttggtac cttgcgtaga ccagagagac gaaggacact ggtgatcacg 720
acactaatta cgcatgttag ctgcctcaa tccaaggtaa cgtttctttg caaaacatgg 780
aaaactaaca gtccaccgag cggaagacg cccatgagag caaatttctg cctcttgggg 840
agctgtagtt gtgtgatgag aggcacggt agaagtagga gagtaagatc ggtagcgata 900
ttcatggagg cattgaagaa ccagagcact tcgaacgaaa gacagtgacc aggtagttct 960
cgggtcccaga acttgccac aggcacgcag ttgacaaacc cactgacaat ggcccacgcc 1020
gagtatgcag ccacaattcc cattacaatg taacatatga tacgaaactt gtaacttggg 1080
aagatgcgca ggtactgcaa aagtagggat attttgggtga acaataggct tgcattgtac 1140
attgggattg cagcccacaa gctctgtggg gagggtagta gttagccatg gcccatcaga 1200
ctgtacagta gatgtgtcct ctagggtcta accttcagct gtagccttaa ttcattggtgc 1260
gacagagaat cgctgtgttt ccctaagcca tattggtatt cttatgatag tcagcaacaa 1320
gcttcacgat atccattatg ctgacttacg acaaataaca agagcgagat atatgattgc 1380

```

aaagagctgc aggctatgac ttaatataag gctctgatat tgaggacggg aagcgtacca 1440
gagaaagtag aatagtccea tcttcccggc cgctcgattt cattatccca actctggtgt 1500
atatgcgcat cgccacaata acaattgaaa acgaagtgag cactgccgtc accaccattg 1560
ccgttcgtcc tcgacttgca cctcatcat cctggcttct agggagcaga atatgctcca 1620
gagcctcgtt tagcatcatg caaagagaag taatgaatga acgtgattgt aaggtataaa 1680
gagcgtcaat caaagcattg aaaacgtcaa gtgtccgtga acattagggg tcggttcaaa 1740
ggagtgtgag attctgttct caagaaaaga ggctgtgga acgcccgggc aaggacgga 1800
ggggaacaaa gggcataaat tgatcgggac agatgtggcg gccgtcgcca gacatatatg 1860
aaccatgata gctgaagaca gctccatggt acggagactg caacgctgcc ggatatctga 1920
ttgggcattt gaccacgaca aggcagcggt tgtccctttt tgacggtaac ccgtttccaa 1980
caatggttct ctatgccgtc gcatggcagt gggccctca atcaataata gcgacgatcg 2040
acggcctgaa ggcagtatct tatccacaag acggcagtag ggaatgccgg tttggtggtc 2100
gctgctccac caaagaccac ctgcagcgg ctggtgttgc cgcagacatg cgtatggctt 2160
gaacagccag cctttgggcg aagtctctta gcgctccga acagcacata gaccgagagt 2220
gatgctattg ccaaggatat ccaaagtcg atgccatccg aagacgagaa agcaggtgcg 2280
agcaagatcg gtcccagat ccgagctaaa tgcttattgc tcccagccct ggactgtgga 2340
gttgctaaac gatgttgtgt tggggtggag atcatatcat tgacactgac agccactaac 2400
cagggtttca ttcacatcgc ttaggtaatc gtgacatcta ccgagacctt ttgcattgca 2460
acctcgctaa gatccaatag tctcgacatt gtgcaatcgt acctcgaaa tatcgagatt 2520
acggtaactg gccaacgtg attttttttc ttttctttt ttttttttct ctcaggcacg 2580
gaataaacca attgagccgc gttgagacag attagatctc gaatctacag acgcaaagt 2640
gttgctttca gccgcgaatt atacctttcc tgcaggaaca tgcaaacctt gaccctgaa 2700
ggctgccatg cgggtggcaa agtatgcatt tacctcttaa aggactcaga attaagtcct 2760
aacttcgata atgcacatca gtcccaggct agtggtagct tgcaaggaaa aactcgccga 2820
gggataagga acgtgcgctg cggcgatctg gggccttggc actgtgccct ttgtgctcgt 2880
ttacgacacg accacaccag ggacaaatcc ccataggagc ggcatcgtga tgatcggcat 2940
ttggtccatc gggcagcttc ggcttccaag aggttctcag aatttggttg gtgtagtact 3000

gtgtataata ggctgtgcg cgctgctgc ttgcttgta gagactgaat ggccagaaga 3060
 tcgactgtac tattcctcac agggttgctg cggtccgaga tactagtttg ttcttgtcga 3120
 tcgataggat tgagtagata agacgaatca atgatgaggc tagacctgcc tctgctgact 3180
 gttgaaacat aaccgaagcg aaggctgagg taagtaagtc ggagaagtgg aactgggtag 3240
 agatgaaata tatgcagcac gtgccattac tcattaggat actgatatcg gaaacggtat 3300
 attttgtctc atctcttaag caccgaagac attttgggtc ttttcagaga taaggggctc 3360
 acatccatac atgcttgctg ggaatattca actgcactac ttcaacgaac agacagcctc 3420
 accgttcggc ccatcttccg actaccgaga cactcatgca gtgtctcagc gcgaccctt 3480
 tgaccggtat cgcttctct tgtttcacgg taatcttcac tcttcatgca ccattttgc 3540
 cgtttatcaa gatttatect tttgagcttc tgtccctcg agtcggcaag cggtcccat 3600
 aactccgttc cgacaccaga cgccgaattt gccgcctata cctcgtcatt cctctgccta 3660
 gaagcgctt acgttccagc ttgtggtgct acaacgatcc aagcgtaata tacaacttga 3720
 gcatccaacc actggcgaac gtatcagtgt ctctgctgac gggcgaggag gataattctg 3780
 cctagagctc aatgataaca ggatcgaagt acctcatcgc ctctgacaac ttgactgac 3840
 tacaatcaga cccaactatg agcactttga gtaactcgc atcaagtga acccaggctc 3900
 tactgctggg cgaaagcgg gcttctttcg ccagttgct tctgaatac gggcgtaa 3960
 catgctcagc tatttccgtc aacatgaata ctcgcatca acagcgttga gccacattat 4020
 tctcactcta tcaaagttgg cgtgccgctt atacttggtg tgatcggtgt cgtaaagtgc 4080
 gccaggctcc tatccgatac tacaacattc ccgcacgct gctaacaaac gcaacaaaga 4140
 ctccctccc agtataactc tgattctacc aggtgtatta gcagtctgca aagttcgtag 4200
 agattgaata gatgaataat gtatttgatc gccggcctgg acgcaggag agtgcaatgc 4260
 taggcaacga aagtgcctga ggtcaatgat attctatcgg ctgggggttc ggggccctgg 4320
 agtatgagac tacttgctga ccagtaaccg ttagttctca ctggattaac aatgtgagaa 4380
 ccgccggtct catttaccat gctgaacaat tcatatgct gaacaatttc atatgctgaa 4440
 caatttcata ctgtggctct gaagagcctt gagtttgag tcagcgaagt taggcagtgc 4500
 caaacttggg gctcaggcca ggaaagccat acattcatct ttcgagacgc gttgtatatg 4560
 gccaatcgt ttagaagctt gtagaact aatagagcct agagtacgga gaccagaaat 4620

caattcatgc ggtttagtgt actatatgtg ctctgcctta tccggccgac agtcggaaaa 4680
 gaacccgatc acgcgcgggc aaaccttcaa ccgaaccag cctagcagtg agcactgata 4740
 acagtagccg ggccccgcta ttgcgagatc actccccgca tcacatcttg cctatataaa 4800
 ctgccctctc ttatctacca ggttatatc tgccttccga ccctttctga aggaccggca 4860
 acatcggaca ttaagtcctt taccgagcct atcccagcca acgcagtcct cggccaattt 4920
 gcttctccct atcctagaat ctccgcattc ccccgacctc taacttcagt actcggatcc 4980
 tccttcagac gcacgatggc ttccgcaatg gcaaagcgcc ttgagggcaa gacaatcgtc 5040
 atcactggcg cctcgtcagg cattggccga agcacagcca ggaattcgc gcggacagct 5100
 ccaaaggacc ttaagcttat tgtgacagca aggcgcctcg acgccctcga ggagctggca 5160
 aaggagatta aagaggaagt cggcgagggt gtcaagacct tgcccgtgaa gtcgatgtc 5220
 agtaaccgag aggaggtcaa gaactttgtc ccatctctcc ctgccgagtt ccaggatatt 5280
 gacatccttg tcaacaatgc gtaagtctgc tacgtagcct gctttgtaaa acaggctctc 5340
 aataaacgta gtggtctcgt caaaggcgtc gctcaagccc ccaacatcga ccctgaagat 5400
 atcaacatca tggtcgcaac aaacgtcact ggattgatca acctcaccca agctgtcctg 5460
 cctattttca agaagcgtag cgatggcggc cgtggagaca tcatcaatat tggaagcatc 5520
 gctggtcgtg agccctaccc cggcggtagc atctactgct ctaccaaggc tgcggtcaag 5580
 tcattcaccg aagccctgag gaaagagctc atctccacgc gcatccgct cattgagatc 5640
 gaccccggtc aagtcgagac tgtaagtgtc cgatgccatc attgaggata gtgcttacia 5700
 agctggtagg agttctctat tggtcgggtc tacggagaca agagcaaggc caatgccgtc 5760
 tatgcgtaag tcattcgacg tggacgttac gcagtgaatg ctaatgagct tgtagtaact 5820
 gcgagccact tacaccggac gatatcgccg aggtcatcgt cttcgccgct ggtcggaggg 5880
 agaacgttgt cattgctgat actttgatct tccccagcca ccaggatatgt tcacctcata 5940
 tgtctccac agaagtaaag ttatctaact tgttacaggc gtctcccgt catctgtaca 6000
 agaagcctca ataaacagtt tcgcacctgt ttttagatcc tataaatagt aacttgggca 6060
 tatagacaaa gaaatagatg tottaatgcc atatatacca tacgatatcc aaatggcttg 6120
 ccatgaagcg acttattatg aggtgttgat taacattctg ccatatgctg aaaatcagaa 6180
 tacaagacct ggacatacaa ccccgctcgt cctatcttga ttccaagccc agacctagac 6240

ataaagatgg accaaatcca tcaaagcatt cccttacccc catcgtcaaa cctcccatgt 6300
 ctcccttccc catccctgaa tctcctcgcc cccttcaccc catccccag aaccggaatt 6360
 cccttctcaa attcgtttagc caacgcatcc tcgaaactct tagcctcaaa cgccgcataa 6420
 tagcaactcg cccgatccgc gtttaaacad gctgcggaa agccacgatc tgtctcgcaa 6480
 ttcccatcgc ctcttccacc ccagcccccc gaggcacgac ccgattcgcc aaccccatct 6540
 cagtgcctca gtcgcaccaa ccggccttcc ggtaatgatc atatcgagtg cacgtcccag 6600
 accaactata gctgaagcc ggactgtccc tccgtctatg agaggacac caaagcgctt 6660
 gcaaaacacg ccgaagggtg catcttcttc gacaaccga atatcggcaa gaagggagag 6720
 ctcaagacca ccggcaacgg catgcccagc cactgcggcg atgaccggct tgggtgattat 6780
 catgctgag gggccaattg ggccggtgtt gcggccttga acgcggttgt gcggggacat 6840
 aatggggccg gtgtacttgt ctccaacatt tgcgtgtct tgcggacttg cagtggatcc 6900
 gtcttgactt tgagcttggg gttcgtatct cgctacctca tgcaggtcaa accccgcgca 6960
 gaagggtaccg tttgcgcgt ggaagacaca cactttctga gatgcatcgg cttcgaagtc 7020
 taggaaagca gccgtgagtt tctgggcagt gggaccgtca atggcggtgc gccggtgagg 7080
 gcgatttatg gtaattgttg ttatgcctga ggggggtttt ggtgcttttg atggacaaga 7140
 gctgctcgca tgccaggttt gtggtcgctg ttctgatagt gtggacttgc agctcacaaa 7200
 ggtgggtgtt aaaacctgt tcttggtgtg tcaatacatg ggtttagtgt ccctttttat 7260
 ggggtgggtaa cgtcttttga tcatgctggt aatgtcagct aaggacctcc tacttcgata 7320
 atactagaac ccattgtttg gcccgatctt tattacacat ggcggtgaat ggcaattaat 7380
 tgccctctt ttaataacca actgttatcg gcatttcgac gacagccgc cagcgttttg 7440
 ttttcctaag ttgggggttc tacgcggcgt tatgggtggg gtcatgcatg atattacata 7500
 ttgttgttgt cccggaaccc ccgggcgacc atttactta acctctttt ttttttctt 7560
 tttttttacc tatacttgtg gtctttttt tctt 7594

<210> 5874
 <211> 4985
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5874

tattctggcc atatgtatct gttttttgtc atagtgtatt gccatctcca gctttccgaa 60
gccgggtctc tcataggcaa catagacacc agttcccgat ggactgggga tatacgctcg 120
caccgaaac acgttcgcat agtctggaga tagagggcct ttatgcagga cgtgagttgg 180
cataaacgag aatcctcaca gatgctaacc tgtaaaactt cctgtaccgt ttctgaccaa 240
gttcaactga cgtctgaaga ggataaacag attggcactc gctgaaccag tatgctttca 300
gactttggaa accctacgct tcaagtatgc acttgcaact tgtcatcgga ctccgcgaga 360
tctgcttttc cctggaggtg tatgggggtg gacccgacat cctagccagg agggagaggt 420
aggtgtcggg cgagatcttc aatgctatag gcctgagtga cagatcgaca cggttataat 480
cgttgttgaa cttgatgcca atggatgcag ctccgaccc tcagtatttt cgagcattaa 540
acagcagtct agtccgagaa accttttcaa gacagttttt tgcagaaaat acggaactgg 600
caggcacagc caccaagact gcaccgtcat cgccgcttcc atacaggaca gtgctaccta 660
tattcatgga gaacggcaac tgattggtag tcagcaatat ggatgatgct ctttctggtc 720
tctactaacg tgatacggat atcatcgatt ggcaggcaaa gtggtggtcg gctgaacagc 780
ggatagttcg cgcaccaagt tctcatgctt ttttttaggt tagacaccgt ttaaggggga 840
tgtgtggtgt cggttttaga ctcatgaca gcctctctag aaccacttga gataaactaa 900
ctgactgatt gacgggcggt gaactcttat cctctgtgca ataatctcag tctcaatgct 960
ctctccata aagccatatt tgacgtctca gagaccctaa gtctaggggt ccacctcgta 1020
tattctatgg atcagattta ctggacctct ataccaaca acctttcatc tataaccgcg 1080
acctcctact tccgaatata ctatgatcac tcccgagcga cactcttcag ggccaggaca 1140
ggacgatcaa ccaaaaaatt ccctgaagaa cagtactttg ttttcaagca acttgtgcgg 1200
caatagcttt atttcccctc ttcggcctat attacttgac tcggctaaaa gggttgctga 1260
taaaattcgg caaatcgtcc tttgggggtg catttagctg cctaaaactt tgacacgcag 1320
gactggatga gtacacatcg gccagggaca ctgtatagta gaacatgaaa tgatattcta 1380
gtatcagctt gcaactcttc gtttttattt gcaccgggct ggggcaaggg tgccttagca 1440
gaactgctcg cgcaaataatt accttcctg attgatgcaa gcttttggat cttttgaata 1500
aatcatgggt aatggatttg ttcgctaaat aacaagaata tctaccaaca tatgtattgt 1560
gtatacatgg cggcgctcact gcatcgagtg cgcttgctgt gggtaatagc ccaagataga 1620

ccctgccttg tgctccacat cctcaaaaag gtaatccgtt tgttccaaca aagacttcct 1680
 tcgcgaagag taggtcccaa atgagcgtgt cgacctcatt ctctgcagag tgctcacggt 1740
 aatcgtttga cccgcatccg gcgcggcgac taccattgta cttggcgtgg ctgtcggagg 1800
 aggggagcga ctaccagagc gaaatagggg atgtatgttg ctttcatcag gcactttgat 1860
 ctttgaagga ggttgcttgt ttggcgctaa ctgcgtagag gacgatattg ttgataaagg 1920
 gcgaagcatc aactgtcga gggaccgttt aatttgcgag cactccgtt gaagctgctg 1980
 tggccgactg tgacccttat cgctgcctg atcttcatag gaagcgctga ctgtggtgtg 2040
 tgtcgttgca ctttcgggat agggaatgag agtgggagtc caggtcgagt gaattagatt 2100
 tggagtctga ctggatcagt gttttgccgg ataacggtct gatcgagaga cgtttttctc 2160
 gaaatcgatg gcggtcggag ttattgtctc aatggacggg cattgcgatt tcgcaatcga 2220
 cgaggctgcg cgagacgccc ctttctctgtg tacctctggt cggttgaggg catactggcg 2280
 agcttcgatg caattggggg cggccattgg ttgcaattgt cattgctcga ggtggctcgc 2340
 aaaaggacgc cgcacaacat tccttgggta agaactgaga gtgcccataa cacacagcgg 2400
 gcaatcaaca gcgcttgctg atttgagcca atgcctgaac ctgccgcctc actcacagcc 2460
 tgcaaggcac tccatgttat tcctcccgcc gtcacgccag ttgcagttat gaaatacccg 2520
 aatccacatc cgtaggtgat ggttttccat ctttctcgcg gtaccctagc gttcattttt 2580
 gaaacgtttg tcacaatcaa cagcaaggcg agaaccacaa aacaactgag tacgccgaag 2640
 ctgacagtga ccgcctcaat gaaagatcca cctggtgtaa aagctctaga agagccataa 2700
 cacacaccat ggaggacggt gacaatgatg tttaaaaaca atgaggcgcc tcccagcagg 2760
 tagcccgggg aggccttggg catgtttgat aggggtcttg aacgtttgta gcagcacaa 2820
 gcagaaccta ggatattggg ggaaaacacc ggtgacagag ttctggcttg cgagctgtaa 2880
 ggcgcaacg ccataggagt aggtgactgc gagcagagaa agctcagatg tgcgtagagg 2940
 aattaagaga tataggtgag gtggggagtt gttgagactg ttaagatgat tggaaagagc 3000
 aggtgtata tctgaggaag ggatgccaga aataattgga caggatgaaa gatgttagcg 3060
 aattgtcagg gataggcttg tgttaatgtt tggatcggtg gcaattccaa gtgactcaga 3120
 atagactatc caggccaagc attgaagcca aagtatgact gaccacgtct tcggtcaaga 3180
 gcagaatgac gacaatagca tgctatgctt ggaaatatac cacttttagca caatcgaata 3240

cggtacaagc tcattctctc aagctcaact gctcacatga tgtctttcca aataacaagg 3300
 agcaaggttt gtttggcagg gaaaaccgga ggcacctgaa gccattgaat aagcatcaca 3360
 ttgaacaatc gagtatcatt cttcacccggg atatgagctg tgaggccgca taggtgcccg 3420
 tgccctgacat gcctagaccc ctagaccgca attgactgct tagggcttgt acttccgatg 3480
 ctatgaagcc aacgattggc tgcccgtgc tcgagaaagt cttgcatggc tataccgatt 3540
 aggccctgtc aacgaacgat taaccaattc gtcaaggctt tcgacgtgcc tgatttcagt 3600
 attttgaagt gccctccaat aatgaccact gattgtgatc accgatagac acgggatgtg 3660
 ctgggagtg ctagatccaat agatgctagg atccactatg tgacgtgtcc acagaacacc 3720
 tggagacaga taatgaccgc cagtttgggt atgacttcag agagcctgat ctcagaacac 3780
 cgctgtttcg gtgtgtgagt tagccaagac tcgggggctc cagtgtagat ggtcatgata 3840
 tggaaatatg taaatgatct caacgacgcc cgacgggtgc agcagtcgac gaggtgacg 3900
 agatcataca tcacagagct ttcatgcac gcggctctgc aagatcatga tatgtgactg 3960
 atccatgggg atatgtccac tttatcacag gtcaaagggt gattaaagg cgggcagaat 4020
 ccaggcgact gttcgtgaga aagtgcaca atatgctgaa ctaaaccgat atcgccaaag 4080
 cgctaaaaa atgcttcata gtactctttc atacggagta tggcaaatag atggcacagg 4140
 ctgccgcca ctcggctgca tgttcaagag gattgtatct gtttgcatg ttaaggctac 4200
 aatactgctg ccgcttgaac taatatagg cctcatgtgc ggatgaatag acttggtgcc 4260
 tgtcaagtgc catgtttccg cctgaggcga ttccagcaag aagagagggg ggacgagagg 4320
 ggggacgtct aggtccccc ttcaggtaga tgatactaga actggatatg ggacctggag 4380
 gggcattact tgtggcgggtg cccagagaat atggctgggt cagtggctgg tgtgagggga 4440
 gcggctgtga ctgaccgct tctgcctttt ggcaattccc gttgctccat cctctctact 4500
 ggcaccctgc catcataatt tatcatcttc agttgctgcc tctcagctct tttgcagact 4560
 ttaattatcc ctgtcctgtg tcttgttttc atctatctct gtataaaata aatctctatc 4620
 cgccaggctc ttacctctc ctactcccag tcggccgtct cccctcccc acttttagct 4680
 atctaccttc ctccagtggc gcaagatgaa gctcacattc agagtatgat ccttgtgtgc 4740
 tacaacaagc acctggattt tcatgaatta tgctggcatg tgtcaatcca gtatttcagg 4800
 caacaagaat tggagattga tatgtaacct taggatagtg tgagtcacac tgctcgagct 4860

cgaaagccag tcccgatgcg ggcctacctg cattacaggt cgcccaggtg tgaaagcaga 4920
tctccgcgca tggaggattg gatgttcatt ccctagagct catttatctg gttagttcag 4980
ggttc 4985

<210> 5875
<211> 333
<212> DNA
<213> Aspergillus nidulans

<400> 5875

tattaaaaaa aaaaaaaaaa aaaaaaaaaa cccgggttgt tccttacgg gccctttccc 60
tcaaaagtgc ctttccatcc ggcccccggtg taaatttttt gaaaaccccc ccctgggggg 120
ccctcccggtg tggatttcca ggcccccaat tttttcccg cccggaacct cttttgcccc 180
gaaaaaaaat ttttcgggtt tttaaatttt tttgttgggc ccggtttgaa tgccgttcgg 240
gccctggtca ggggtggttc agccgttttt ccgaaacgtt tcgaaaatgg gttttaaac 300
ccgggttcgg ggttttagcaa aattcccggtg gga 333

<210> 5876
<211> 6143
<212> DNA
<213> Aspergillus nidulans

<400> 5876

agaagattga ctgtgacgcg taaggcgag caactatact accattatac ctcggaatc 60
ctagcctttt tttaaatgtg acagggataa ttccttcaa tcgacgccga ggttgagctt 120
tttcaggaga aagatctgat tgactctcaa atatcaattg aaataatata tatagcaaac 180
actcaggact gttttgccac accagcgacc aacctgatat agctggcgca ggcgaatcag 240
acaatgaaac tgtcccaacg cactatgtac cagaaagaat gcaaaactat ttacaggtgc 300
agagtagcct tcaaaggcac tctatgctag gtccaattta tccatctaga tggtagccgg 360
gttcttgag cgccagtcgc gaatactggt gtaggggctg gctcgcttga cggcaccccc 420
agagaacagg ttcttgact caagatcaaa gcagggttgg gacgtggccg tgggtgttgg 480
gccgacacca ctaccagtgc agagagggtg tgccttcttt gctcccatgt cgcaaaaaat 540
gttttcctca acgtgcacaa agtcggggcc catggaggtc tcggattcgc agagcttgac 600

ggcagagtgg aacttggatt cactaacgac gagctcggtc tcggtccaag gagcgcgagac 660
 atcgcggcga gcacgcatgc ggcggctgtt cagatcacgc ttcttaccct tgaccagta 720
 gttgatgctg ctggggctct cctcgggtgcg gaggccaaag tcgatatcgt tacagatgtt 780
 ggccgggtcg gtgttgccct cgtcgaactg gtcagacgag taccggggcc agcgtacttg 840
 aaaccgggtg ttgggctggt cgcggttgcc gtcaatccag aagcacttgg gctggttagga 900
 gttctctcca ttggtccaca ggttgctctc gtaccaggtt ccgccacagg cttcgccgta 960
 gtctccagat accgcatact tgttgccgcc tgcagtctcg gcccagggtg tggtcacca 1020
 ggcaatgcag atggcgctcg tgttgccga gaagaggag tagacaccct gctggtcgtg 1080
 gtcgaccgtg atggtgccaa tgttcccggt gctaacagag ccagggtcgg cagtcatggc 1140
 cttgtactct caaaatcgt tccagatgcg gctgtttatg cttagcagga aattgcaagc 1200
 gttgtgtgat ccatgcactt acacatcggg caggtcacca ccagcattct cagtgccgcc 1260
 gggaccgtca agaccaacgg caaccttgat ggtcgaacca ggatcttgat cctggccaaa 1320
 attgtccatg ctgaacgaca cgattgtcaa gagaccggag ataaccgga ttgcatcaac 1380
 gactccggcc atggtgatcg gatgtggtaa aagagaattg gtacgagaag acgctgagaa 1440
 ctgaaggctt tagagctgcg gccgagagcc tgaagaagct tagagatgga tgagaagagc 1500
 tgctgagagg cttgaggatg atggcttcat cgtcgggtctt ctggctgggt tatataggct 1560
 ggccgacttc ggggtttggt tgttggtctg tatagtctcg cccggaccga tttgcatcaa 1620
 catcgggtata ctacagctc tctcttgcat agcattcgaa tagctctgct agtatgttac 1680
 atcgtcccag gggccaaatc ctgcagtgtg ttgaaattgc tctactgca gttcatcat 1740
 atagatcggc gtggggggcg cccagcaaa atcggaacag gaaaagactg tacgagaagc 1800
 acggtcattt gggttggttc cttggctagc tggggccaaa agccctggag agcatccttc 1860
 gcatgaatca tgatgtttct tcaaccttga ttacgccctc ttggcctgca gaagcgccca 1920
 gtgggtcccc ctccggggcg acgtttacag cgactctgaa cctgatagta tacaggctac 1980
 tccttagcgc agggctgagc agacgatctg cagcgatgtg cgctgacgag aggttcttga 2040
 caagccgctg aggtcatttg cttagctctt catttaacta tggtttcatt gcactacaga 2100
 ctggttcctt aaagcaccgc tatctctatc gacatcctcc gtctttctct ccagatcaca 2160
 ccagcactgt tcctcttttg gcttctcata caatccttca agcccaacat gatccactcc 2220

aaagtcctct tctcgcgcc cgfcacatca agcctggctc aggaccttcc gactgacatt 2280
 gtcgggtgca aagacctcga ctgccccaac gagggctggg actcttgacac tgtagcagac 2340
 gagacctatg ccggtgttgg attggcacgg gtctcaaacg cgccagactc attggctggc 2400
 atctccctag tgaagggggg ccacatcgag gatccaaagt ccggcggaag tgccgggggt 2460
 gatggttccg aagagtctcg ctcttcagg tctgtctact atcttgaac gccgtccaat 2520
 ttggaggtgg ccgacgtgtc tggtgtgtc gtggtcttca acgaccctcc aactggccac 2580
 tttgatgtcc ccaaactcaa cgacagcatc accgtcgaca cgcgggcctc atatgggact 2640
 tgccccgacg tcatccagca gggttgcatt gagggcttga ctcggcaggc tggcaaatta 2700
 cagtactccg gttccaatgc ttgtcagcg cttgtctcag accttcgtaa caatcctcca 2760
 gatgagtga gtgacatgac aggtccggg gatggactgg gcagtcttga cgttgtctcc 2820
 ttgagcaatc tgtctaccat ctgcagctc gccaatggct cctcgaactg ctggcctatc 2880
 ttgccaaga cagacaatct cgcccagctt tacgatgaca cgacaaagg atgttctgcc 2940
 atctttcatt atgtaccct gctgatggtt gtcacatcat aagggaact acacggaaca 3000
 aggaaacctc gccgagatgt acaagattac ccctatctc accgtcttca cctcggacaa 3060
 cagcaccaat agcccgttca acaacacggc tgctccctg acctgcttaa aggtcgtagg 3120
 cacacaggat gtcaccaatg ccacggatcc gaccgatacc gacgtcgacg ctgcgccgt 3180
 gtcagcggtg aatatggttg gggccagtgt ggcggccatt gctacactca tatttgcct 3240
 gctctagact ttctatgaac tgtttgtaa gctgtctcgc aagctttccg tgaatgttgc 3300
 catgaatcat tctcttcac ataaggttat catctcaggt ctttgtacaa agaacctcaa 3360
 tttcattata cctagcattc tacaacttat ggttttgta ctgcatcgag aggttgacca 3420
 tctcgtgccg ttcagactgc acgtcagatc gtaggtgtag actgcacccc tgacaccctg 3480
 aaacagggga catatttggc ctgccacaag gggccagaaa ttgaatccgc attgtcagca 3540
 gccctcttga acccagccct tagaacacat tatatatacc aatatgggga tatctgactc 3600
 ttagcctagt gaaatcgat gtagttcaac caattggcct ctagtggcgc ctgtaacctc 3660
 agacatgcag acgacacggt gtgtctttat taatctaggg acgacgcgga agcagtagtt 3720
 ctgacattcc togtttcact attcactcgc tgagctcagt ggctgtttt ttccccggat 3780
 tattgagcaa gcagtgttg actgtgtctc taagcgtcga accacctgcg ccattcacc 3840

cggcattaag cctctccaaa tcattcgatc agtagcagga caattcatca ctatttttcg 3900
 agtttacctc tcagcgtctg gtttgaccgg cgttctgcag tatatatggg ctctaggtgg 3960
 gcttcctgta atgtagttaa caactgtctc ccccattha accaagcata tatggactag 4020
 gaattttttt tttccaaatg tttttctttt tttacttttt tatgtttgat aaattgatga 4080
 ttggagtcaa gtataaagtc taagtattgc ccaggaacat cctcgaccta tgcgcgcgcg 4140
 gcgtcaccag tctctatgtc acagcattat gcattagccc agctctgttg gacccacct 4200
 gacggcgatc ttcatatatc taatgcaagc cttttctggt ttcaagggaaggtaagagc 4260
 gcaaggctta ttaccggggg tgttgaggca gtgttcaaca gctgtgaggt cacattcaaa 4320
 tcctgttgac tcggcgaaga atcggttcgc ataactgtga caaaattcgg ccgtcggata 4380
 gattccgtgg tcatttacgg cttgacatga tattcggta ttccgtgtag gtttccatca 4440
 agatttgctg gtgtcagctg gcggaatcgc gtttatgctg cattcaggag tcggcgacgt 4500
 gtcgtgctta tgggttacaag gcatttgtaa cactattata ctccgtaaag aaatagtcaa 4560
 tcaaaatgcc aataagtcac tcgccccttg tgattcgtca ttggctgttc gtatgagtct 4620
 gctttctctg tccagttacg aattcaaata gtcactttca ttgggatcaa gaggcttata 4680
 cgagttctcg agccccagta ggatcgcca aagacactgc ttctccctct tcatgggtcac 4740
 aaatagggtca atctgccctt tgtcactttt taatatcttg gtccatagggt tcgcgttcac 4800
 tcacaaacct tgggtgttcc aaatgagggg ctgcgacttc ggctttgaag tcctatatcg 4860
 tccctattct ccccttgtag tcagtgccaa aaatcattga gccatctatg atatccaaga 4920
 gaaaggctat ccaatgtgag tacctactgt aacctctga taaagggtt tagtaaacc 4980
 cgttttcaac atctcaaggg attacatatt gcagaatcaa tggaggtgtg gatataagga 5040
 cctcagttct actttcaaata ttctgccc tcactctgct tccgatccat caattacaa 5100
 ttactgtaac ctcccttagt caacatgagc cctcgtctag actacaatga aggatacgat 5160
 tccgaagacg aggagatccc ccgttacgta caccattcta gaggaagag tcatagatcc 5220
 gtgaggacgt caggctcgtc acgcacgttg gattacgacg gggatgatga agctagtgc 5280
 cacgctgccc cctccgggat tgatcgggac gtcgagcct gtccaacatc tcgcagatat 5340
 actgatgact gccttgagac acataaattt cgagggtgcc gtcctctctg ctcccggtga 5400
 cgaaccgatg ataacaagg tttgtactac accaagtatc gcagcccggc taaggacttg 5460

cctatcgagc gtgatcccgga ggggtattaat ttattcaagg tccgacagca cacacggcca 5520
agtgcgctc atgtgcccag tggataccgt gagccctacg aagtcaaggt cgacgagtat 5580
gaggatgac atccccgtac atgcactagc cgccgtgact ctagacagcc gaaagtctac 5640
aagggtccggg ttgatgagta cgagataacc tccctgcacg ctctcacact gactttcgcg 5700
agtctccacg gtctgaaaga tgctctagcc gctacaccga ggactcgaag cctggggagc 5760
ttctccccg ctcagggccc tgtcgggtcca gcaggccttc tccggtcgat gaggacgtcg 5820
agtatgagat ccgtgagccc cgagggcctc gctccagtcg acactctaca gatgttgact 5880
ttcagccagt agaacaacat cctcgctttg gacaacgtgg actcagcaga ctttcgcggg 5940
ttgatgagga agtcgattat gagatccgtg agccccgtgg caatcgtgtc agtcacgctg 6000
ctcatggtga cagcccctgt caggaccaa gctccaggca tatcggcatt caattgtgga 6060
gtacgcgcgg accccgggcg gctggccgtg gccgggggtcc tgatgagtct gacgatgttg 6120
agcctaggca ggaattgctg taa 6143

<210> 5877
<211> 8895
<212> DNA
<213> Aspergillus nidulans
<400> 5877

cctggtgaga gtttgtcaca tagaatgaca gaagaacaac gtctccatag acgttatcgc 60
ctttggtgac ctogaatcat accagactaa gaaactcgaa gctttcgtcg aaaacgtcaa 120
aggcggcgac ggatccaacc ttgccatcat cccacccggt ccgaatctgc tctccgagga 180
actccaggct tcacctatcc ttggcggcga tggatctggt ggtgctggcg gtctgggagg 240
cggatgatggt ggtgatggtg gcgcgtttga cctggacgct gcagccgaga acgacccga 300
gtcgccttt gcgctgcgtc tgtcgtctaga ggaagagaag aaccggcagg agaaggagag 360
gcgggagcgg gaggcgaac agggtaagga gaatctggag ggaattccag aggaggatc 420
gtcgagcaag aaggataacg aggatccgga caagatggat accgcttaga tgtttctatt 480
taacgttaat gcatacccg gcacactacc tacgaaaaca aatctgtcgt actattagta 540
taagcaatga taaactgaag attatcgtca ttcgtatcgc catacgtctg tccagcctat 600
tatcccacta ataaccaga gaaaataaat gatctaaggg tagtgattct atacaactag 660

gtacctcgca cgcttccatg gcaacaaacg caatcacccc cgtaccctga ggaatcccc 720
 cagcccccta tcaaacctct cacacctaat cggcatctca atctgataaa atggattctt 780
 catcacatag tccgcataga gctcatatat ccccttcatg accatatcca cattatccat 840
 aagcgggtct gtgaatagta ggaacttcgt ccagtgagc gtttgaaaac acgtcaatcg 900
 gaacttgtcc gtttcaagcg tttcgagacc cgttaccgga agatgagggg tgggtatgt 960
 cgtggtgggg tttacggcgg gggatggtgt gaggggtgtc gtagagaggg tggatgtgtg 1020
 ggtgtggttt gaggacgtgg ctggtgtggg cgttgatggc gatggtgaag gcgacgatgt 1080
 tccggcgccg gaagatatag gtatagaagt ggcgggggag agaggatttg ggagtttggg 1140
 cgttattgag cgggttattg cgtgtacgct gtttgccct cattatcagc acacctttca 1200
 ttaaacttct gttccctccg gccacggta gaccaattga agtgaaggga gtcattcaaa 1260
 gagcgacccc atgaaatgtc cctgcaagga ctaagtaatc atttgtggag agctggcgca 1320
 agccaggctg gaactcgcg tggtagatca agccgccggc tttattgatg attataaggg 1380
 agtagacggg cctgcaacaa cggctattag tatctgttcg cgcttctggg tcgggtactt 1440
 gtgaaggagc aggacgtaca tggtaatata ttcagatcga ggcgatgaga agaaagagt 1500
 cggtgctgt ctgagaggtt cgggtgctcag gctgtttctt aggtcgtcag gtctagtctc 1560
 gagtaattgg gagctgctgc gtttgctctt tgaaaaatga atgagaaaaa taaatcatat 1620
 tcattagcgc agcaatagca gggtagatgt gtttatatgg ttggagttga aaatgaaggc 1680
 ggaagtcgaa gctccaatgc ggaggtggat tgtctcctgg gtcgcctatt taatcagcac 1740
 ccaatgcaag tggagcgtag atagagatat gcacaaaata tatacaaacc ttggtaatct 1800
 catgctacct tatactcaag aagtcattct ccctggacac gtctccaaat aactccaaat 1860
 ctccgtcata ctacatacat cctcagatgc tcttaattat attcgccttc aatccttctg 1920
 gcgtcagaac cgcattgagt agcgacgatc cagaatgagg taatcaacgc tggctgtgcg 1980
 cctaaggcgg gcatccacag agcctgaacg gttcagatct cacagtggca gaagtgtat 2040
 ttcacgatga tgctgattct gctattttgc tgggtctgcc cctgctcatc tttctgatac 2100
 tagtactctc ttaaaagata gtaactacaa gatcgaacat ccagacgagt atatattttc 2160
 caaaacctc gtctcaaact gatggtatat ataattctgg cagtacataa gcctcgccgg 2220
 gggcgctgtc tccatcaggt agtcagtaat gtctccttc gcattggatg tgggccagac 2280

acaggtagtt gttcagtatt ccccggtga aattccttta ggtatgaatg atcggacgtg 2340
 ttagcagggc ctgcttggtc tcagagttaa gtacaaggtc agaccttcag gcaaagctct 2400
 tggatactta ttgatgcagt tagtcgataa aaaaaattt aaagctgtcc cttttataaa 2460
 ggaagcccag gaactttcgg taagaagaga agtttgaatc tgaagtgagc gttcactgag 2520
 gagcttccta taattgagca cgaaatttca gatactcaga gcaggcgtag actatctacc 2580
 gtgcacgttc agtctgaaca agaaactgcc gttacgatta acagaacata gtcagcattt 2640
 tgccatgtta gatgaaaagc aagtaataga aaccgcccag agaagagttt tatatcgtgt 2700
 ccaaattaat acaggatata atcgcatcac atcacatcat gaatcataat tatgaccaa 2760
 actgtgtcac ggcgaccaa caccgaacc taccgaaaac agagccttca aacaggatc 2820
 actaaccgag gatgatatac aataaaagat aagaaaggta aaaaaggac agtcgcagat 2880
 cgaaaagagg atttaatgaa gccagccaga caggccgaag atcacttccg ccaaagacta 2940
 accaacttcc actctccatt gacacaactc acaattccat tcttctcagc ccattctctc 3000
 aaaggcaa at cctccttttc aggaccagg tgcgcttct catagtgtct cgccacatgc 3060
 tccatgcgct ccttccaagc atttaccctg caaaactcca tatcacagaa cccgcagtga 3120
 cttagcgttg gtggtcccg aagctgatgc cagcacgct taaccactgc ctcgagggat 3180
 tcttcaaagg agtctttttc ggactgggag gctgaggagg ctttacggga agatttctgg 3240
 gtagatgagt ttgcgtcca aggagaatgc atgcggcgct ggtgctggat gaagaggtct 3300
 ttccggttga agtcgttcac gaggagcgtt agtggagtcg acgggggttg tgggaaggac 3360
 gaagttggtg ttccaagtcc ggtaggagac ggggagcggg tgttcagact gcagcgaccg 3420
 atgtcacatc tgtagaagcc tgtctggatg tgctgagagt agacgtggcg cttccattcg 3480
 ttcttcgagg ggaagggtgt ttcacaacca tagcgggcga cagcattcaa agcggcggtc 3540
 ggtagtcttt ttggacgtct gtttggttgt ggctgcttcg gcgcggttg gtttgccgc 3600
 tgtctttcta cgcgccttgc tgctgtgctt ctgaacgcgg ttgccgtca acggtctgcg 3660
 agcgggtaga agggttcgc gctgcactc ggcagtagag gtgaagttgc aagagttctc 3720
 gtcgggttgg tgggtggttg ggggtgatgc ttgcaggagc atacagttct gatgtggcgt 3780
 tgcgtgagtg ggctcagggt gactgattga ttcttgtttg tagagtgtac ttggcatctc 3840
 ggggtatgaa ggtgatggcg aattttcaaa actggatgtg cacgatatag agtcacgtga 3900

gctgagggct gacatgcaat tgctctgaca gtctgtctga ggtgagacgc tgcgcaggct 3960
ctcgtcaaac ggcgacaaag gacaccagtt tcctaggtcc ggagcagatg ggggaggagg 4020
gtatcgcatg ggttcgaatg gaggaagtg ggcgcccttg acggtagcct ctgctgcaat 4080
gggaacgcac tcaatcatag catcagacat aggaaccgcc attgcatcgg caatgtggtg 4140
aggatagtag tgggcctcga cctcttgccg agttgcaaga tgatcttgta cggagtagtg 4200
ataaaagcca gggtagtggg agtggctctc cattgttcag cataagacag aaggctgac 4260
aagtcaagtc aacaaaggat gacaggcgca ggaacaccaa gaggcaagta caatgcttta 4320
tttgagcttg agcaaaaaca ttaagacggc catgaccaca gaggagccat ggcggcattt 4380
atcctccgct aggtccctc gcccgaggat aatttcctgg cgtgggaaaa gacaaagcaa 4440
aaccgcaatg agagcaccgc gaattggcga atctcgaatg agcctcaagt caccaactcc 4500
taccctccat caggacgaac aggcacaatc gccggtggga actgggcata tgtccctgtt 4560
tggcgtctag tgccgacgga cggactccat cgatgcggaa ttaggagtgg acaggactag 4620
tcagggcggt tgcattggag ccaacccttt ctacttttt cctctcctta ttctgaggta 4680
gtttctggaa ttggattttt ttctgagcca aattcgcata gacacaaatc cagcgacgta 4740
aaatacgggt acatgagcgg gacaaatggc tgacgggggtg cagcgccgca aacgcctgcg 4800
tcgtggagag cattccccag gactcgtgcc acggggacgg agttcattac gaaacgataa 4860
cagtacgtga ctcatgagtt gagcctcaac ccgtccaaat gaggacttat cattagatga 4920
tatagggcgg agcagtgagc agcggtaagc gtggcactgg tgaatttcatt cgttgctcgtc 4980
atctagagat gcatgcactc gttcgtgcgt ttctttttct ggccccctcc cgggcttctt 5040
tcatcgggga ctgaccaatc ttggtatgaa ggatgcatca tccgaccaat ctacagagg 5100
gtggctggca agaacgggca gtgttggccg attgtggttt gccctgggtga aagggccctt 5160
tgctctgggc ctctggcatg aagacgggtg cagcttggcg cagataacga agcgaagata 5220
actggagaag gggaccaacg aagaagcgat cggcgatgac atgagtgaag cgtgctgaat 5280
ctatcgaaga caaggtcgga attcgagatg agatgggtgt ggtggactgg tagtcgaaat 5340
ccgatcagac ctgcttttag cacctggacc tcgtgttgca gcgctaaacc gcagcttttg 5400
actgctgcca aagaacagcc cccaagcaaa gaagccatgt tctatttaga gctcagctca 5460
agtcgcgaat gtatagtttt attggaaatc acaagtgcaa gtgtgcttgg gtggaggatg 5520

gagatgccag ctagtgtggg cccggccagg aagtcccagt gtttgccctga tcgggacatc 5580
cccacgcgac agctgatcca ctcttgagtg tttggagcct ctcagactcc ttagattgac 5640
gacattgatt atcattcttc cgagtattca ttcgacctag gatcgctcg atcaaacccc 5700
cccagacca gacctgtctc cgaccatcag attccgcaa gccacgccac cagacactgg 5760
ttggtcgcta gcacggccct ctcccgcatc gagccccgtc aagtaaggca cagccgatga 5820
tactctgat atggaatata tgtgcggtct actatcttgt gacagtcgtc ctgtcccgtt 5880
agtcgctcta taccgcaatc ataccgatct gccttgggcg caggcgagct gcagcagtag 5940
cgcaaattgt gcctcatctt ggtagcacga cattgctagc tgcatacagct gagatgaacg 6000
tcggtatgca tctctcaggg gcgaaactct gtctacacct tcttgtcatc ttgggatcag 6060
aggtggatag tcagacaaga tcgaaacggg cgcgagctc tgcatacctta tggacgaagg 6120
agcttccaat gaaacagagg gcaaaagcaa agtaagacat tcgaaccgcc aattcaacga 6180
gaaccatgac tctggcgggt cggttgccat gcagcggcta tgttcggacg acttgacgca 6240
gacctctgcc ggaccacgca ttcactgcac atatcagcat accatcttat tctcagcttg 6300
ccaattaga gccttttagc gggctgtcag actgactgga actcagttct gtcttgatta 6360
gctgggacgt gaaggctctg gccaaagtgt cttgtatggc ttatctgcca gccacacttt 6420
tagcgacctc aaggcttaga agccctgca gggcttttga cgtccggcat acgaacagca 6480
tcccagatg gaacaactct gtacttgat gcagtcgaat gttcaaactg gctttgatga 6540
tgatagtgg agtggtctgt ccaggagttc cctctccaat tttttccgct ggatgagtta 6600
ccaacaaatc gtctggaaaa ctacagggcg atccctttct cagcgtcagt tctcaccatc 6660
ttcccgact accgctggaa gctggtccga ccgacagact aaactttgat cgtcccgccg 6720
gtgcagccat tgtcaaaagc agtgtttgat cttcatggga ccgagccggg attattggac 6780
aaagatctag acagcagtgc agtttggttg ctcccaattt ggaagagtga ctgtcttcag 6840
agaagccgag acgccaaggac ttttgacacc agagtaaagg agtgaggggc caaatgaga 6900
gacggatgtc ggtattgatg ataaagctgg cactggctga tgaaggctcc atcttcatcc 6960
ggacaataat ctggtagaca ttattcaaag actccatcga cagtgtctta gctgtcgtgg 7020
ctcacgacca agacacatgg ggattcctct ttccctgctt tgctggagac atccagaacc 7080
gtctacgttt tcagaggacg ctgatcaaac atgcctggcc tgagtttggg ggcgggaagt 7140

aaccttctat ctgagagggga cctagacgag gggctcgacg atcctgctct ccaacacata 7200
 tacctggaga tgtaggggtgt tcagtcatt ttctactcgc tgtagttgct ttttaagcct 7260
 tgagctacaa gcagatttcc ttccacttgc aggcaaacg agtcaggcta gtacaaacgc 7320
 caaactcgac gatctctagt tctagtctct gggtagtcg gagtcgccct ggagataagc 7380
 caagtgcct tcccctcatc aagatgttca cgtccagcct tggaagaatg atacgagtca 7440
 gccgaacatc cagacgagta gtcgacgatt gtgagaatgc aaggtagccg ctctctgctg 7500
 cattttatat atccggaaag tttccctaga cacttaacgc caaaaaactg gccgattgaa 7560
 ccgattgctt ccagctgtat ggaataattt acaatcttta tacttattgt ttactagcct 7620
 aagtaatagc tactctagtt atcagggcta tgtgtttgcg tttgtatata agactaccgc 7680
 gtcattggcg gatattcgatt tctcactcga gccctgccac gctacatgtt caatttacgc 7740
 gtatattgcc ctgtatattg acgacagtac tcgaagacgc cctttacagt gatgactagg 7800
 tccagctcag acctgcgatg gagtgtgtgc agatgaagca gcgatctagc ttggagcgac 7860
 tcgtgatgac gatgttactg atcaacgggt cgggtgttacc ggcgagtaag gccagaatcg 7920
 ccatttcata atgacactaa agcactcagc acaacaaca attaacaagc actattaagc 7980
 ctcggttggt gggcgaaaga gcaggcgaaa ccgaagccgc cggctcctgga ggtctttcgc 8040
 tccttcctat tctggtgaat gagcgaccct cgccgcttcg gcacattgtc ccgggtagtg 8100
 ctggagagta ccaagcaagc atgtttgcaa ccgcaatact ggatacatta gaacttcca 8160
 tggactgaga aaaactggat ggtgccttca cgctgtcaca gcgcatcaac aaagcagacc 8220
 tcggattcga tttgcatctt tctcaatagc cgcagtgggt tattgccaat atacagatca 8280
 cggcatctat acagaacagc acggctctcg ctgtcttctc gacattggat ccgtcttcaa 8340
 cagactagca tgtgaaggcg gctttcgacc aaggaaatgc gaggttctcg aatgacttca 8400
 tcgctgctga tttccatata tctgaccaac ctcatcagag ctttctcctg ctgactctca 8460
 gttacctcga tagcagctta ttctagagag taagtattat gcatggaccc gaagctttgt 8520
 ctacggtttc tggcaccgac cacgttcggt gccaatgcta aggattagct gggagcttga 8580
 aagttgactg gtggctcctc agggcagtc agcttctgag cagtcaacta actctatcaa 8640
 tcttggtgag ctatttctgg tatcagtcac tattgtctga tatcgcggat tccctccgca 8700
 gttcaaggct agcgttcccc gcaattcggc ctgtgaccca aaaacaatat cgcccgttaa 8760

agaacctagt gccgtcccc gcatttcaag cagatcctca gccgagaatg acgcatatac 8820
 cgggtaaatt tcagctagtg ataactactac ggcagtagat tgaaatgatc ctagtattct 8880
 atagtgtcac ctaaa 8895

<210> 5878
 <211> 3990
 <212> DNA
 <213> Aspergillus nidulans
 <400> 5878

aagctcagt aatcgacttt ctcgaccatc actcatcact gtcacaatac tttgtctagc 60
 ttcataacta ttctatcgtc tctacgaaca ggaagttcga aactttatca aaatgtctgc 120
 ccctcaagtt gttagtccc tctccagcgc cagcgggccg gctggaggat ggtttaggac 180
 ccagttggcg actttgagga acagattcat caacactggg atgcctttct tcatcttccc 240
 ttttattatc ctttccactc gttctggact ttcttaacat cgaccagaga agcgacgcca 300
 gcgagcagct ctcacggga cctcattcgc cgccaccga ccagtttga tcaccgctgg 360
 aggcgggtgca tacactacag ccgttgccgt ttatttaacg atgaaactca tgcggcgat 420
 cccagtatag cttgatattc gcttatttct ctgcgagaat ttaccgaaac tctacataaa 480
 gacgtggttg agcctagatc tagaggcggc acttgactgt ctgtgcgata gacggcttca 540
 tttaccattg aacattcttt ccctttgttc gtacaagtgc actggttga ctgggctggc 600
 aaggactgga aggatatgac tcgataggaa tgaactggga tggatgggat catctgacag 660
 cggggcgatga cgttctttca ctggcttttc tttggaactt tgggcctatg tcgacctgac 720
 tgaatattga gtgaatattt aatggatact ctcttttata agcaacgatg gcccaactgt 780
 ctctctcac ctctctata aaggaggggc gcagaagtac tcgtacaccg tccaatccag 840
 tcaggggcag ctcttgacct cattccgtat cagatccgac aaggttgac ccaatcacac 900
 tggcacggag gcaaggatcc aggcataat cagacgcatt aatgcctcac taccgatcaa 960
 ccccgatcaa agaccgaccg catatttcag gccactcata tcgtcgcagg atgcgtcagc 1020
 ggctgcgcgt tccggggata ggtgcgtggc ctgattctcg ccttttctat ttgtcacttg 1080
 ggaacatccc gcacctatgc ccggctcagc cggaatcg tgacagttaa catgacatct 1140
 ctattaagtt gtcattgtgg tgggcctttg tggacctcgc cgtcaaagct tcagtgtccc 1200

ccaccccttca ggaggagtct ggggggtgggc cttggattcc ccggatcgga tccacgag 1260
 ctccctagtg ggactaagaa aggtatcagc ccacagtgcg cttagccgtg tttgtccaaa 1320
 gggataatgc tcagagttct cggctccgga ggtatcctga tgctattgga tagattccat 1380
 cacacagtgt gaacccccgct tctgcggtct ccccccggc ttcttggcgg ctgaacccccg 1440
 cattgggagc attcaagcag accaggatac gcattaaatc agtgacttgg tcgggggatgt 1500
 cacttagatg ttgaactttg taggcgtctt cagcttgaac aacaagtttc cttgcacaga 1560
 actagatatc cggtcggtac tcaaagccca gatttgagac aagggttcgaa tgttcagca 1620
 cagcggccca gatggatttt cttgcggcta ttataggtaa caatcgacat aacgcaacga 1680
 ttattggctt gctttgaata gtatctcgta atatggggcg aacagccaag ctccaggctg 1740
 tctaggggta gtcgcacgct tcctcgttga accgtgactt aatggtcggt ggcaaccagt 1800
 tatttcatgg atatatatta acaggttatg taaacagtgt gagacgagtg atgttccccc 1860
 tatagacgtt cagaggcaag tagtgtctat ttctgatggt cgcttcagtc aagttcatgt 1920
 tgactgcaa cattcatcat caattgtgtt tactggtttg tcaaattggta agcaaataca 1980
 ggattagata aaacagttct tataggctat ttactcgttg ctttgactga tcaaattgat 2040
 aataatattc ctcaaaagtt gtgaatgaat cttaggaacg cgcagagcag ttaagctaca 2100
 gctaattctag gaagaacaaa caatacgtac tctgacgacg ggacgtatta taggacgata 2160
 tgagtgcagt tatattataa ctatgtagct gacaccagac agtttcaata ttcatatctc 2220
 aagtaagaat cccattatga cccgaacacg cccatcgtga tggcgcccat taattcggcg 2280
 ctcatagtct aggtggattt aatcagtgcg tctaaatcag gcttatgacg agtctcgaaa 2340
 tatggtagtg cttcagcagc gcagaaagag agtgaacggc acttgatagg agcccgggtcc 2400
 aactacggcg aggtgcgtgg tgggaggag gacagactgg cggaggcagt caaggcagag 2460
 ctgtactcgc ggcagctgcc aaggccaagg gagacctgct ggtaaggcag cgaacgaaga 2520
 accctaatac gagagttggt atcatactat cagcaactag tagatgaaga gcacaacaac 2580
 agttagaaaag aatgtacccc tacactacaa aggcgggcac aggatgattg tgcaactgac 2640
 cggctccctc aggtaaaggt atatcctaca tgagtcgaag tgaccgaaac cttatggagc 2700
 gtatgttttc tgaagggtt attaagggtc tctgctgtac agccacgctt gcctgggggtg 2760
 ttaacctgcc agccgcgacg gtggatcatca agggaactca attatacaac ccacaagagg 2820

gtaaattcgt cgatcttggc attattgatg tcttgagat cttctgtcgt gctggtcgtc 2880
 ctcaattcca ggataçaggt atcggttca tttgtacaac acatgacaaa ttgaaccact 2940
 acctgtctgc ggtaacttcg cagcagccaa ttgaatcccg cctttcaggt cgattggtcc 3000
 ataatttgaa cgccaagctc ctattgtgtg taaatggaag gatctggagg atgcttcatg 3060
 aatgttctgg ctttcagatt aatagtgaag attcttaagg aatagacgaa tactagacgg 3120
 cgacattttg gcttggtttg acctctgttc caataaacat ggcaggcacc acggttcctc 3180
 tacggatttc tgaccgcttc cgtgttcgtt aatgcgttgg agagtcttga aacttatatg 3240
 accagtcatg taaagataga agtacctagt tgattagaag tactatagag gattcaacca 3300
 tattattagt aaacattagc ttctgaacca cagcattacc ctgcctatag aaccataatc 3360
 acacctcaa gcaccatcgc acccagaagg gaagacctca gcgcattcat agccgcagcg 3420
 ccagtgaact ccggggccgc gggggccagta tcagtattgc taggggtctc aggctgggtt 3480
 acaggctcag tctcctccga gacaccgcca ctagactcgg gccctcggg gctagtgtca 3540
 gtatcggatg gggctctcagg ttcgggacta gtttcgtttt catccgagct tccgcctgtg 3600
 ggtgctgggg agacgcctgt ttgcgaggtt gtggggacta ggggtgtcga actagaatcg 3660
 gttggctctg gggctggggg ttcgggtgtg cctggggcag tgggtgggtc agtcgatgac 3720
 tctgtctttg ttggctcagg ctgcgtcagtc tcagtgggtg aggggggcg ggtctccgtt 3780
 tcgggtctgc aaggttctga agtagatgga ggaggggtgt cgctttcggc ctgcgatggc 3840
 gtggtgcttg atgggggtgg agtctcagtc tcagtctcac agggctccga agtaggaggg 3900
 gtctctgttt cagtatcgca cggggacta gttggctctg gcgtctcaga gtcagtttcg 3960
 catggctccg tcgtcgaaga tggagggggg 3990

<210> 5879
 <211> 8442
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5879

tgcaacatcg ccaactgggaa cacgtcaagc gttcatttgt cctcgaagag ttcgttgatg 60
 atccagtgac aggggtagac agttcatccc gagtcccgtc gctatcttgt tccaggctcc 120
 acggtggagc tcctggggaa gagacgctgg tcagtgcggt gacagtcgct gttccagtta 180

cagtgtcccg agtatgtcag gcaaggaggg tcgggctgct cagagtctag acgcgcaatc 240
 tatacagaga gacaggagat aagtatggaa agatgaactt cgtccaatac cgccgggtat 300
 aacacccagt cgcagcctga gactcgcaac acacaaagga cgggacgggc cttacaacc 360
 atcattccct tcaaattgga aggggtaaat cacacctcgg ccggcgggct tggcgtcaat 420
 cttactcgat tgggaactcc aggggtcatct tgggttagcc cagttagtgg gcctgttaag 480
 ccgtctgcac tagtaggagc tgtcagactg gctgaagtcc cagttgaaat ccaaccccg 540
 gataaatatc ctgcagaaat tgaaggatta gtatgagcgg tctgttcctt attcttgaag 600
 attgaacgat gctgaaaagc tctgcgcgaa ggctaccgat gggcgacctt cgaagcgagg 660
 tccttaacaa taccgagtat actcagagta catattagta accaaaggca aatactcctt 720
 ccgtctcttc tccgttcccg aagtggacac gattaacgga agtctgatac gactcgatgc 780
 gaagccagct atcattcaca taaggcacca ttcgggagga tgctgatctc aagctataag 840
 tgggatccctg cgggcccgcga cgagcttaag tcgagtcctg ctccacgacg ggccccattc 900
 cattatttgt gggttccttt ggagcccggg acgacgcgtt gcatcgctgg tggcaggtag 960
 ctgaccgcaa ttgtaagggc caatgttaca ggaagctctt ttccgggggt gattctcgtg 1020
 aagagcatct ttggccagag ctagaggctt ttgtctgagt ctaagcctgg gacagtgcc 1080
 ccagatagcg aggcgtattg gcaacatgag tgccggagaa tgcctaggcg acgctgttcc 1140
 caatgtaagg aagatgcatt gtatatccca gcgactatct ggacaggatt caacgcgcct 1200
 ttcgttacia gaagggggcg agttctgggt actcgtcata gcctagactc ttgccgcagg 1260
 tcgacaggtc tagagctcgt cactgggttc cagggtagga cggattatgc cccttaatat 1320
 gacacaagaa tagctaccgg caagtacaaa taagacggtt agagacttca acgcctcgaa 1380
 ccctctagat tgcaacgccg ttcctacgtt caacgccttt catactcatt tcaacttcac 1440
 ccgcgggtccg cttgccctca acagtaatca gtccgcactc tgcagcttcg actcgataga 1500
 tatgatatcc tcctcgctct cgacctcgat aaccctgttg acttctgccg tatttcgcat 1560
 taactcgacc gcgcccgcac acatcattcg ctgattcggg ttgcagttct cggggagata 1620
 gtagagcagg acgtaaggaa ccgcaaggcg accagaaccc tagaccagtc agtacacttg 1680
 aggtgataga gaccacgcgg cggagaccac gcggcgatat gaagatgcat accagagtta 1740
 aggggtagct aagaaggatg aaccggggag acgactctgg gagctcgtcc gccaggtctt 1800

ccatctttgt gtacacctcg ccatcttctg ctcggttttc ctggctttta gcatcgatga 1860
 tatctggaga ggaatcagct atcgctctca caatatggcc atatgtgaaa atggatatag 1920
 tccagagggg gcgaggcatg acaccacata cagatgatcg cttgcggctc tttcgcccgg 1980
 gatgttgtca agcgaaactt ggcgagcttc tctttggtct ccggagagaa ggcgtataac 2040
 ctttcagagg actaccttga accaaagcgc gggctcgcag tcagtataaa attcaciaag 2100
 gcttattctc gcaagcagtg cggggcaccc tcaccatgct gtcggacttc caggatagag 2160
 cgaaaagatg tactccggta tgttcaatgt ctgtcgtcaa atccctatcg aaacgtatga 2220
 cgtgggctaa gggcgacaga tatggaacga atatccagcg ttcgtcgagg ggtagataa 2280
 attgcgagcg cggagtcagt cacgtcgtgc accacctcag caccctactt tgcggcgaca 2340
 ggtaacctc cagcccgttt ccctctcca cctgcgtgcg gaattctcca tctctcttct 2400
 ctccaacctt tcttctcca tgttcgcccg attgactcaa ctactcgac atcttcaccg 2460
 accaccattc actcgtcgc cgtatcttt tgcttctct tctccttct caccgtctag 2520
 tgcgcacttg ccaaaaatga catcatcctt cccgaacaac aaaacgatac acacggcagc 2580
 gtgtctaata attggcgatg aagtactcgg tgggaaggta attgggccac aaaacaatac 2640
 tcttgaata cagagcaggg cagaagctaa tcggacagac tgcgacaca aactctgcct 2700
 tcttcgccag atactgcttc tcgctcgga tccagctcaa gcgcattgaa gtcacgctg 2760
 acgaagaaga agagatcctc gaggccgttc gccgcatgag caaaaactac gactttgtcg 2820
 tgacaagcgg cggcattgtg accaacgttt gtacccttag cccctctaca cccatgtatc 2880
 taacgaaatg gacgaacagt cacgacgaca taacctactc ctccatcgct agagccttca 2940
 acctcccgct aaagctgcat gaagccgcct tcgagcgcat gaagaaactc accaagcccc 3000
 atgccctcac ccccgacttc agctgggaca cgccctcccc cgcgctcact gcacgcctcc 3060
 gcatggtcga gctccccctc gatgcctccc tccccgccga gtcccaggcc atcttcgtct 3120
 cagatgacat gtgggggttc catcgccatt gtcaacggca atgttcatat cctccccggc 3180
 gttccacggc tcttcgagcg tctcctcgaa cacctccggc catcgctgct tctcgtctt 3240
 gttaaccccc agggtaaggg gatttaccga tatttgttta gcacaccgct gccagagagt 3300
 gcagttgcgc cgtacttgac ggatctggcg acaaggacgg cagccagggg cgtcaagggt 3360
 gggagttacc cgcggtggca gaagaagagg aacacggtca cgctggtggg gacggataag 3420

gagtttttgg actcactagt tgccgaggtc gaggagaatg tgcaggggaa gaagggtgtcg 3480
 gcggaggatg agttggattc ggacactgag gagaagtagg tgggtctgtt acatttacct 3540
 agcaatattg caatagaatg ggataataga tctctgacaa tgcggtatat tttccgcct 3600
 cacctgatta tctgggacgc cattggtttg gctgttgtga tattggatct tgaaggcttt 3660
 agcgatatct aaactgggat ccagaacaga gtcacccccg gggtgaaacc gggagtgaaa 3720
 agtatgcggc cgatagctat ttggagataa cattcaattt aaacgagctc atcagcatcc 3780
 cagaggccaa ggtgagcctg gctcacggcg acgtgagggg cgcggaagca ggcaagatta 3840
 tgaagtgtgc aagaggcaaa ctcaagaaaa cagcgactg taccagatca aagtgcaatt 3900
 gaaaatgtac atacatacga acagctcaaa tctattggcg cgcctatcct cgcatatcaa 3960
 cgagatatgt atcatcagac taatctttca agtaaaaaaa aaacatggga ataaatggta 4020
 aaacacagta gatcaaacag acaaccagag ggggaatcga atattcatgg atggagaaga 4080
 tgacggcgtg atggatggga aggtggaagc ggacatcgta tggttcggta ggtataaaaa 4140
 aagcgtcaca atccgcaaac ccgtcgacga gcgttcatta ttccgttccg aggtggctgt 4200
 cgctaaagtc ggggtttctt ctctatgtga aatctttcct ttcgtttctc aaacagcgtg 4260
 cttgcatcct gtcgagccca gcgcctgcc attacataac aatacatttc ccgcagcagc 4320
 cggcgtctc accaggtcgt cttacgtcca ttttgctgtc gggggcgcg ggcgcaatg 4380
 caccggatcc agatgggttg gacatctcct tgttgtaccg gcggatctca cgcacaaggt 4440
 cgtaaaaagc gttttcgaca ttgatgcgcg atttcgggat gtttcgatga acttgagcc 4500
 gaactgtcgt gccaaaggatt cgccctctga gggtgattat tagccaactg tgataacgaa 4560
 atgacctgaa gcgacgtatt aaaccacact tgttcgata ccactcgctc cttgtcgaga 4620
 tcgcatttgt tgccgacgac aatgataggg aagtagtctt tgtccttaac gcggaggatt 4680
 tgttgttgga atgtcatgat ttcttcaaag gattgacgcg atgtgatgga gtagaccagg 4740
 aggaagcctt cgcccgttcg catatattgt tcgcgcatgg cagagtattc ttctgtccg 4800
 gcggtatcga ggacatccaa cagagcgacc tcatcgtcaa tgacacactg cttgcggtat 4860
 gaatctatct tggggatcct tgatgagcga cagttcgata cgattgtgaa gtgacgagct 4920
 aaccttcaat tgttgggtca tattcgtcca cgaagtggct ctggatcaat tgaatcgta 4980
 agcatgactt tccaacacca ccaccaccga cgacgaccag cttgtactct cgtagaaact 5040

atttgagacc ataacagtga gccacgattg ctgtattttc cgcagctga ttgcaagatg 5100
 acgttggggg cggaaggaag aaaggaggcg agcagggggc caaggggaga aaggataaga 5160
 caccctacct ttgaagccat tctggaggat tctgttcaac gatctaccgg tgtgggaaaa 5220
 gagtcaatgg tgatccggat cgaagctatt ccaagtgaca gcgggtcgag cgagctgctg 5280
 agcacaatth tcttttgcag aaagggtcga gagtcggggc ccaacaggtc gggagtthtcg 5340
 cgcgagagca ggatgcgcct aagaggcagg ccacagcaac ggcgggtcca gtgactaggc 5400
 caagcttaaa gaagccagac ggggggttcca tgaagaggat caggggggtt cgtggaactc 5460
 tgtcacaggc ggaattgagt gtgagccggg acgcgattcg cttggctgcc tcgacttagc 5520
 atgcaaggth ttcgatccgc gacggctthc tttcaaactc gacgagagcc cgtcgttcca 5580
 gaaagcgaat ggaatgatat ggatgaatca ggagatgtga gggagggaga ggaggagga 5640
 gcgagtggag aacgagacgg ggaggggaaa ggggatgctg atgattaaga gcacttgtaa 5700
 ggcgacggtc ttgtttaatg gggggccagct tatagaatag aactacggag taattggcca 5760
 aattatgaac catctccaga acattcaaatt tatccatcat cgtccatgat taatcgatac 5820
 ggctctctcg ccccggtcgc gtgcactcgc gcagtcagcc cgtagtacag ggtcgattgg 5880
 tgtgtggcat taatgggata acaaatatgg ctgcagatcc cacctgaaaa aaggggcctt 5940
 ccatcaacct ctctctgat tatcagctc attcagccaa tcctctcgcc agcttctgca 6000
 aataaattaa actcaatgtg ctttgattgc gacgacgat tctggcttca atttcaccgg 6060
 gtctctacta tttaaggatc gagggcggat ggtcaatatc aggcgcacat gcctcctttg 6120
 cagacagagg ccaaatatga cgactcgtcg acacgggcaa tcacactgcc atttttggag 6180
 gagactgcgt tccatgggcc attaatcttc ttttctttcc agaatcatct ccattctttg 6240
 gcttgccgtg gagacactcc gaaacattac cctggacggg cgaggatcta cggcgttttt 6300
 tttacaactg cagtgttgga gagtaggagt cttcaaggag atcataagt atcaccgctg 6360
 gaattggctc tatttccacg aaaactgaaa gtgacagatg tcgcagcggc tcggtgctca 6420
 tctccattag aacggctggt cgaaataaat acagtcgagc accttgccgc caagctgccc 6480
 agggctttcc ccacgcctcc actctgttca gtcaaagatt ggctgatgcc gacaacatat 6540
 ttagccacgg cggcacatgt catccttcaa atcgacctg acgtcgttca aaagtactct 6600
 gtgcatgtcg ctcggtactg agggatgatc tgcattcat gcgtactcgt gaatacaccc 6660

aaactttaag tacaaaactc cgttcgaata cgacgggttac cgaagaatag ccctgttttt 6720
 gacagtcccc cggcgagtct cattggagct tcatcaagtt tataggcgaa gatcgaatga 6780
 tacgcgtttg atatatgata tgtgacacct aggccatgac tcgcttggct ccactatata 6840
 actttttaga agtccgcata aacctgttcg agctaccaca taagcaggcc gaattcaatt 6900
 cccgccagct acacttcatt ttcgttggtc tcgggcccgc gaatctaccc ggtcaagacg 6960
 tacaacaatt agcccagagt acggagtaag gatgccggcc ggccccagaa gggccaataa 7020
 aggcgatcct ggcgccgttg tgcaaccatt ccaaaagtct tatttccatg ccaatggcag 7080
 ggtctacgct ggaaagtctt aaaagattgc ctggcccgtt tacaagcgct tcgggcttgc 7140
 caagtatccc tggagaaatg gtactgtatc tcggtgtcag atctcgattg tgtaacccca 7200
 gtttgttgcg gattgtgacc tatcttccaa ttcaacagct gaagtatacg ccccgcgctg 7260
 ctgggttcga cggcagcttg tgctacgaa gacctgggag tcgggtccag gattttgcct 7320
 ggatgtcttt gccgacgaac tgccccgag cgatccggtg gtactgttcg ggtggtacca 7380
 agggggattg ggggatgaag gaggcctggg gcctttgcag ttcattcggt gggaaatgtc 7440
 agccaccgtg accatgatgc gagtgattct gccgactggg tgtgtaacat tgctagtgga 7500
 attcggaaaa ttccagggat catatggatg gcattggtat ctgcatgtag tgagttggct 7560
 gactttgagt agatccgacg ggtaaggatc ttcttctgga tactcgcgcg actgtagaaa 7620
 tgaacaatgc atatggatat ttccaacaa tcaccatctc gacctaaact catctatctt 7680
 tttggcggtc aacaatgaag tcttgaccg taccgagct ttaagagacc gattagcatt 7740
 agacaaccac gttctgctaa ttctctctac ttgtacgaa tctacatgat gcctccagtc 7800
 ctatctctat tctatttcta ggttgtagcc gtctctgagc agttgtctag tcccttacca 7860
 tcataccgct tcgatgcctg tttttgggta caacgacacc atattctaaa tcaaatcagc 7920
 atcccgtat tcagagccag agagctacaa tctcacctc acccctctag gctcaatgaa 7980
 caacccccct gcctcagcca caagcacgcc ttctctttcc tccacactca gcgtatcgcc 8040
 gtcaccaacc tctcaggaa tgccatcccc agcacctctc tccctcatct cctcagcctc 8100
 aaactcattt aaacacctca ttctccata caccagacc tttctctct tctccacctt 8160
 ctcaacgcca accctccaaa cataaaccg tcccggcacc gcaggcgcg ggaatccag 8220
 agtcagattc gcggtcattc caactccact ggggaatatc tcggctgcga gacgcgcaaa 8280

cacatcgtcg aagagaatcc ctatcaagcc accgtggatg taccctgcat gcccggtgag 8340
 gtgggtggag aggtaggctg ttgctgtaat ctacagagac tctggtgatt tggatggggc 8400
 cttggtgaaa gagtgcctga ggaagtaa tgggtcgatc gg 8442

<210> 5880
 <211> 7626
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 5880

tctctcgaaa agcttctgag agcgctcca actgcagagc aagtgtacag tgtacttact 60
 ctgcgtgatc agcgactca ttgggagctg cgcattgcgg tcggacttac ggagtattac 120
 tgctgaaact gaaacgcaat agcgcatccc aaatcctcgg ttccaagagc ctcttccgcg 180
 aataataacg gtataaaact ttaggacca tatagttggg aagaccggc tatctttaag 240
 taaggcgtaa aggatccgcg acggccttct gttcctcagc catccatggt catggccttg 300
 gcttttagct ttgcgtgcaa gtgcagtctc gttttcaaaa acaaatttat taaacttata 360
 tcattccgca atacattact atatctagaa tatgtagtac aatccaattt tgagtctatg 420
 atctcgtagt gtcagtgtct gaagcctata cccggcctat agccggtgag ctccatcttc 480
 atgcttcaca ctccagtctt cactctgtag ctagcccacc ccactcttca gagcgggcac 540
 gatcaggagt aagcagattg gtggaatacg gatcccgagc tttatcgcaa actcttgga 600
 gtggaagttg gctgaagttg gctgaagttg gcagagtagc ggtggctgga ggtttacagc 660
 tgtttacccc atcgaagcaa atggaagagg aaataccata ccgtcctgat tcgttctgat 720
 tcgttcta atcgtcttgat ccgtcttgag gaaagggaaa gtacaatttg acggtatgat 780
 taccgtaccg aagtgcaggt gggatcagat cgatccatcc atccaccaat gggcctggt 840
 cctagtccta gtcctagcct ggtcctggtc ctggctctac ctatatctgt tcgtagcttc 900
 agttgcaaga agtccaaggt ctacctggct tgtacagtaa aaaacggaga acagagtcac 960
 cggcggttac agtagatggt cgattgacat gcatttagta cacttgcatc tcgagaccct 1020
 gaagaaggga atattaataa gcatggcttg ggctgcaaga acgagtttgt ttcagtttgc 1080
 aggacagaat ttatcaaagt accaaacacc gtactttgtt ttcgtccatt tcttccaaaa 1140
 tccacgcatc catgtccgtg cactgtctgt gctcggttta gtgactaatg ctacttccac 1200

caccacacag cacaagacag gctattctgt aaagggggta gagagcatag ggtcccatcg 1260
ccaggagggg cctaacaacc aaatgcagag tactatacct gatttcaa at cccttagact 1320
gcatcgcaac gcaaccgatc gtcgaatcgc cgagaaggat cagatcaaag atcgattttg 1380
catcgctcgc atccgtatct tatgtatgta aagagagagt gaggcgagg gaggagtgcg 1440
gagtcattcg gccttcctcg ggttgctaca gtggcactgg ctgacaattt catgtctctg 1500
cagtcgagtc tggactgcaa gacacctaag cgagggtggc gtgtatcatg atgagggaca 1560
gggataaacc tacggtagca gcccatacc tgcatttggt acagagtaca gaggattact 1620
ggggtagctg atgctaacta ttgtacgctt gcacggtcac ccatgtcatt gttgtttacc 1680
ccgtatgctg ctgcataatt ctggctgatg accgccaaga ctactgtagc tagagaaggc 1740
caggcttccc tgcattggaa gaccccgcta cttctgctac tgtactctgc tattttatac 1800
cgtctccct ctctgcttga catctggata agcatagttc tagagtctac tcgtcctccc 1860
tgagctgtct cgcattctga gatctaattt ttagctgtc tcatctcagc gtggcgctcc 1920
aggctggtgc agatgctgac cctgaccctg ctctgcatg cacttatgta cgtatgcgctc 1980
tgagcaaac atgcatccct acaccgctgg atggactggg gagatggatg gccaggctgg 2040
gccatttcat ccgtctgatt atagtgcgt ctggaatatt ttgggtggat ttgcagttat 2100
gtactatata ctggctagag taggaaacta ggcaaagtag gcaaactacc tagggccata 2160
gtcataatga gccctagtgc tggaaattga caatttgaag acaaaacgcc tccctgatca 2220
ggtgctagct atagacagtc aagcaaattg catcaacttt tatacgccta ttttcattcc 2280
ttctccgca attctgtaag tcttaatgcc caaccggcaa acatacagtg catcaatgca 2340
cagtgattgc gttcccgta ctgtcaagca gccagcctc cttgacaagg tcgtagaatt 2400
tcccgcgctg cttgatcagt gccgccggg aatcgaactc cgcaacgcgg cccttgcca 2460
ggacgacgat gcggtccgag tcaataattg tgttgatagc gtgcgcgac gtgataatcg 2520
tgcggtcttg gaagatgcta ctacgcaggg tgcgttgaag cagggcatcc gtttcgacgt 2580
cgacggcggc ctagtgttgt tagttttctc cagagccaa aaaccggtga gcaatgccac 2640
tcaccgttgc ttcgtctaga acgaggatgt tgctaggcgt taagagagct cgggcaaggg 2700
agattagttg gcgctggcct tggctcaagt tggatcctgt tgggtggttaa ttaagcgca 2760
tgctagggat atactagctg catgtgctgt acatacctcc ttcttgaatg tgcgcgcca 2820

gttgaccctg catttgagat acatgctcct tcagtcgggc gtgctctgca tacagtcaat 2880
 accattaaac cactgattca ccgatcatgtg caggcccacg taccaagaac gctccacagt 2940
 tcggtatcgt catgtacatg gcgaggggtcc aggttgtccc gcaccgtgcc ttcgaacatg 3000
 gctgggtcct gggggatgat ggcaagccgc ccgcgtagat cacggagccc tattgtcgaa 3060
 atgtccagat tgtcgatact gattccaccg ttggtaggtt cgattatgcg gaaaagcgcc 3120
 agagtcagtg aactctttcc agcaccgta cgcccaacca cgccaatctt ctcacgaggc 3180
 ttgatgtcga ggttgacgtc cttgagcacg aggtcgagtc cttcgcggtg gcgagtgtg 3240
 taattatgga acgataccgc accctgcgca ggccatccgg tgggcgggcg gttcttgaaa 3300
 atgacctcgg gtgcttcgct cggaagactg gcgtactcaa ggacacgctc gacggacacg 3360
 atgttagtct caacttcgac ggtctgtcgg acaatccagt tgagggactg ggtaatctgg 3420
 agagcgtagg acatggccaa gccgaccatt cctgcggaca atttgctgcc agtcgcaaca 3480
 gacacgatcg aaagcaatgc agacaccaa atgatgaccg agccaataaa ctcaaggcga 3540
 acagcaagcc accggttggc actgatggaa gggaaataag cacggaggtt cgcattccatg 3600
 cgccactcat tttccaggct gaacctttcc tcttgccggt aagcgcggat cgtagagatt 3660
 cctccaagtg actcctggaa atgggcatag atggggctgc gcgtgacgct gtcgaggcgt 3720
 ttttaactcg gcgatgtgcg aaggtagtat ttttggtagc tgaaatagat atatcccaat 3780
 ggaataaccg caatcaggaa cggaggggta gaattagcaa taacaagcaa ggtgaagatt 3840
 gccttggtg agttttccaaa aagcatgtta aatgtccggg caagaacctc atcgatgcgg 3900
 tagatatcac tattcacgtt agagtaattc gatcaattct tgatagcgcg cttaccttga 3960
 gaaacggttc aggactcgac cagacggtgt cgtctcaaaa aagcgcattg gggaacggaa 4020
 gatggagaac gccatacgct cgtggagctt cctggacgct tcgatcgagc agaagatcca 4080
 aaggataaga ttctggagga taaccaaaaa ggacgacca agtcccaggg ccaggtaaatt 4140
 tccaataaac ttgcggcggt ttggtgctga ctgcctctcg ctcacttcag tccagtgtt 4200
 aagccagtaa ctaccaccaa cttgcgctgt ttgcgcgcca accaggggtga cgaggtagaa 4260
 ggcaacggca atcagattgc tgttcttggc gtactctcca tatacgtcc acttcacttt 4320
 accctgctgc gatgtttcct gggctctgctt gctcttcaag acattctctt catcgcctag 4380
 cttgcgccga ggaccttgcc agcttacggt actcgcacga cgtaatgtga ctgtgctggt 4440

cctgcggtga ccggcggcct tgateggagc aagagagcca atctgctgtt cagcctcgtc 4500
agtatctgaa aagtcagagt cgggccccctc gattatggta gtagtctcgg agcttttcaag 4560
gctagcgagt ccgccgcttt cggcgcttga gtcttcatca cccgactcgt tcagagttgt 4620
acggacgagg ttggcgactt cacccttcat agccatcagt tgctcatatg tacctttctc 4680
tatcaaggtc ttgtcgcgaa gcaaaccgat aaagtcagcc tctttcagaa caggaatagc 4740
attcgtggct agaattcttg tcttgctgtt gaggattcca ttccgtcaa gtacgcgggt 4800
aatcagatgg cgaccaacgt gctgggtcaac tgctgacaga acgtcgtcga gaagataaat 4860
atcggcacgg gcgtacacag ctctggcaag agtcaatctg gccttttgtc caccagatag 4920
tgagatacct ctttctccaa cctccgtctg gtcaccatca ggcagatttt taaagtcgtc 4980
cagcagagcg catgcttcca cggttagctc ataaaactga ggatcccagc ggtgaccgaa 5040
gacgatgttt tcccgtacgc ttgcattcat gaccaagcg gcttgcgcgga cgtatgcgat 5100
gcgtccgcgg acgacgactt caccctcagt ctccacaag tcgccaaagaa gtgcctggag 5160
gagcgacgac tttccggaac caacacgtcc gacaatgcaa ttaagctccc ctttgcgaca 5220
gctcaaactg atattctcca gcaactgtatc atccttatat cgagcccaag agaaggacgc 5280
tacacggatt cggacagact cgactccaag gtgggatact gggcttcat ttttgactgc 5340
atcagttgaa agctcttcgg cagcgaaata atcagtcaac cgcctgacag ccacagaggc 5400
ttcgattacg aaagtaataa ccatcgaaag aatcgaaagc gggaaagtga ggaggttgaa 5460
gagcgtcaga gccggaaaca cgatcgacgt ggtagaggc gnatcttccg tcagaacaaa 5520
cacggtgaac gttgagcaag aaaccaggaa cgggggtggac tgccagggtga agttcgcaac 5580
ggactgcgta gctccgatct tgccaagagt atttaattcc aaatcattac ggatatggct 5640
gagcttggtc ataaatgcag tgttccaggc gtagagcttg atactcttga tattgttcag 5700
aatctcggtc atgagtcttg atctcgatc cttgttcttc atctggacaa gttggagctt 5760
cttcatcatc cgggctatga cgccattaag cggaatcatg aggatcatga caccaatacc 5820
agcaaacatg ctgactccaa ctaactggta gagcgaaatc atacagaggg taatttgga 5880
tggcgcagac caaagctgcg taccaaattg ggtagatca gacagccgct gctgatccac 5940
ggccatgtgg ttaacaatat ccccggtcgt tttcgatgcg cgaccttcgc tcgaaagtct 6000
cagggactta gcatagatca tggcagtgag gccggacttg acacgcatac cggtatcgaa 6060

tgcgcgctgg aaatactggt gaaggaatga tgtttgagac acggagacaa caaacatagc 6120
 tagtgatata gcaactcctc taatgactgg ctgaggctca gtagtccggt atgaatcgat 6180
 gaagttaatc agaagccgca ggagttgtgg ctggacaaag gccagaatat cgcttccgca 6240
 cttgataatt gctccgcgga cataagggcc accatatgac ttaaacaag ctgtccatag 6300
 agacggcttg tctttctgca attcatactc ccaattctcc tccaacgtag ctccggtagc 6360
 gcgcgtggta tcccttcggc gaagggtcca cagatcatcc tgagtgagga agttcttgta 6420
 cccaaatttc atcatagggtg tcatccaact gaaggtaagg accgagaaca catccgcata 6480
 ttcatatgga cattcatcct cgtcgcccaa ggcatcgtaa gcactctgct tcttcggaac 6540
 caagtactcc agtaagaact ccaaatcgc aagtcccaga ctgacattga ggacagacaaa 6600
 ggacggcagg cgatcatcgt aggtcttccg cgctacatgc gatcgagct tcacagtata 6660
 ggcaatgatg aaaaagagcc agtagaagag aacaacgcca ttcggatacc ggctgcgcca 6720
 atgttcatag tactgaacgg caaatatgac acatagcgag gcgaaaacaa ggacggtgct 6780
 ccagaatcgg aagtcggcaa accaactggc ataaatctca acttgaaggg ccgcctgtag 6840
 ggcaagtgtg aacaacaagg cggacagaac aacctacgcc ggagacaaca catcagcaaa 6900
 taatacggcg caatgatgag ataatcccag agactaacca gcttagcgta gaaatgcaa 6960
 ttctttgaca ccggctgggg aatgcgcttg ttgagcaaga accacagcgc accacttccc 7020
 aaaaccaacc cgaacagagc aacaaccgag accccgacgt ccagaaaaca gggcgtcaga 7080
 tcaaaccgga gtctgctcaa agggccccag ctttcgacat cgccgcaaaa gggctgtagc 7140
 tgtgcgtatt gttggaacga ggtcgacgac agggattctg ggacgatcgc cccgaggacg 7200
 gtctgggtgc tgctgtccag catttttccc gggatgtgca acccaacctc gatctcctcc 7260
 gccaaagcac acagaagaag gggttggaga aaacagccga tcaagagcga gagtgcgac 7320
 cacagagaaa gataaaagta aagttggaga gcccacccc cagtcctgcg aaggacgacc 7380
 ggttgcagcc tgcttactaa aagataggcg aacgtttgtc gcttacgatt ggtaatcgga 7440
 gttgtcggtc ttaagtactc ttacagtct acccagcaat caccataa tcaacaaaaa 7500
 tgattctata gctatcttct gcaagtctat atccacggaa tagcgagcgc aacgaatggt 7560
 gaaatgcgct tcttaacgca aaggagatgg aatttcatct tcgcagtagt ctgaccgctg 7620
 cggaga 7626

<210> 5881
 <211> 3396
 <212> DNA
 <213> Aspergillus nidulans

<400> 5881

cgctggcggg tagggtcgac cgggcaccag gcagccgcca ccgcatgctg aacggttaca 60
 atgtgggatc aggtcgagcg acggcggttg ggggatatcg tctcatcggt aggatggtaa 120
 aaagagacag agctggatat actgtgtcga caggggaaac cggttgcctg tggacgggggt 180
 atagacggag gaaatgtcca caaagcgcg gaaatgtggt gctggcagcc gtgggcggag 240
 agactcggtg ccagtggaac caacgtgatt gtccaataga tatggaccgg tcgagaacaa 300
 cgagatgtgg agctatgatt tagaacagtt ttgccgactg aggatgatag tgatctgaag 360
 gacaaacaga aatcgatgga aagatgaata ggaaaggatg gacgctgctg caaagtgcga 420
 aatgggattg tgtgcctcct ggcaaggggt cgatcaggct ccgtcttttg aatgggtccag 480
 aagcaccgag aagcgctgac catagcctag cctatctggg actagtgggc tgtcatagat 540
 taaagcccgt agccagccac tataagctgc gtctacacta ctccgggagt gtgtcctccg 600
 tctctgcgtt gcacaatcac ggaaatttat tgttttttag actatttctg tactgattca 660
 attctgagcg gtatagaata aatcaccttc ttcaacctcc attatatgca ttcagcgta 720
 tgaaagatac cgctcaaaga actccgcaag ctgctcgtac ctacaaatga tcagcatcaa 780
 ctaaccacaca tcataccaga gccaaagcata cccacgaaca tagttcttca gactctcttc 840
 cttttcaaag tccgctctag ctcccatcca tccatgccac atctcgccat acgtctcaac 900
 aaagcctcca agacccttat cctcgataat ccgcttatac gccgcgacct catccgcagg 960
 ctcatccttc gacgccagaa tagcatgcgg gatcgtcagc gtctgtgcat cagccttatc 1020
 catccgacta ccgagcgaat aaacggttag cttataaaca agggaacaag taaattgaga 1080
 atggactcac ccaggatgaa cttgcaccgt ctccgtaaag ggtgtcccgt ccccgacga 1140
 tagcgccagc actgtacccc cccaacaaag tccataagcg cccattttct gcacggacgg 1200
 gaaattgccc ttgtaagtgt cgaccaagct ggggaggctc ttgcaacct cgacgaaaga 1260
 cgccttagtg gtcacgaact ccataagcgc agcgtcttc tcatcagtgt cgggcggaac 1320
 ccactcatgc ttcgctccat cgccgcggaa gaaatcaggg atcagcaciaa gggcggtgag 1380

gcgttttgcg agcatgtcgg cgccttgggt ggtttggggg gagttgccga agatgtcgtg 1440
 gattgctagg atagcgaact gggatgtcaa ggagccgggtg acgtctatct tattaggtag 1500
 tctggtcaaa ggcaattttc gaaatgaaag aggaagggtg aatacaagtg ctgaatccga 1560
 gacctccaat caccgatgag gttccatttg gagtgtagcc ctcggagata acaggtggga 1620
 tgggtcggca ggcttcgcag gtcattgttg ctgctgtgcg actttgaaac aagacgggtc 1680
 aagctgggta aagaggctct cacacagata tgatctaggt gtaacactgt ggtccatata 1740
 aggtatccag tctggaaata gcggtgtatt cagaagataa tggatatacc agtgggtctg 1800
 aagacccaaa tcatttcgaa cttgcgtata tgcagagggg tcgcatacct gacgcaaacg 1860
 atgaccgtgc cgttagccga atgtgactga gattcctgcg ttctgtttat catggacagc 1920
 ctgagtatga actagatgca gttcaggggc acatcgactg aattcagatt cgtacagaca 1980
 tcataagcat ttgcaactgca tctcccagcc gaatacaatc acattgacaa gaccaatcaa 2040
 ctaatcacag actagcccta ctacaccttc tcgcgaatct cagtcgtcgc acccttgtgc 2100
 tccgtctcgt caatctgctt atgcacggca gcagcaacct catctgcttt ctctctgccc 2160
 tcgaacacta cgccattggt agtattaaca tctaaaaaag catcaacgga aaaacttact 2220
 gaaagacaac tcctcgagcg tacgtcccga tgtctctggg aagaagaagt atataaaaac 2280
 gacttcaaac gccagccagc agcagtacac aatcagccat ctccactcaa tgcggtcaag 2340
 tccaattgga ttgacataag tcgcaaagaa agtgggtcca cggccgtaga actggaacca 2400
 cgagaggccg cgggatcgat tgaagtacgg gaagatctcg atgagatatg ctttttagag 2460
 ttagcaaagg cgcttgcg agagaagtga ggggcatact gtaggttaag gcgttgtatc 2520
 ccaggttata tgcgggagc taaaggaaga tgaaaaggat ggttaaaaca gcagcagctt 2580
 tgggtctcgt ggtcatggcc ctttccatcg agatgggtcca ggcaatgtac acgtgagca 2640
 gggagcaggc ggtggtgagg tacattgttc tgcgtttgaa acgcggagct gtcaaggcca 2700
 gggttgttcc gcatacaaga cccagcagg cgataccgac gttgatcttc gatttgacga 2760
 ctgagtcctt gatgtccacc atatcgagca agtcgctcag ataatacctg aggagatcag 2820
 catctcgcta aagagtagtt gggagaacct acgagatcag agtgtttcca gaccactgtg 2880
 tgaacagtcc gaggaagca gtgataaaga ggcgacggcg catacccgcg gtccggaaca 2940
 gatctcccca tgattgcttg gattcttctc gctcgagtag gatagttctt tcaatctggg 3000

caatttctgc tttcacaata acggagtcgc ggtcgccctc ggcgtggtac ttggtgagga 3060
 tctcgaccgc ttcacgggtg cggtccttac tgaccaggta acgcggactc tcggggagga 3120
 acctagcagc acatcaatca gcgtgactat atcaagtgat atgaagaaac atacataacc 3180
 gtcacgatct gtaccatagc ggggtgcaatc tggagcaaag aggggtactct ccatgcccag 3240
 tctgacggaa tcgtaaccgt ccccaaccct acagcggcgg cggtgatttg accgatgaag 3300
 taggacgaat tgaacagcga cgtgaggatc ggacgttcct ttggataacc cagctcaccc 3360
 aacatagagg aaccagcaac aatgcaaaaa gggata 3396

<210> 5882
 <211> 8036
 <212> DNA
 <213> Aspergillus nidulans

<400> 5882
 gctgtgcagc ctgtctggac gtcattgggg gtgtgctccc tgcggggctc actgactcct 60
 cagggttggg cgccttgtcg tccgccatgg tgaggaggagg gtatgagaag cgctgggtat 120
 gaccttgggt ctgctgtgaa atcgacagag gtagaaaagc gcgagtata cacaggggtc 180
 gggagtctaa agtcttaagt gaaagtctcc atatccccgg actgtcacga tccaactgat 240
 cagcccgata cggcctgggt cggaggctcg gaacgatccc gtcagatacc gacaccgtcc 300
 aactacacct gtgcagcaat tccgagaata catttcgcc cctccaaaac acccagtcaa 360
 aagacaaggt cgggttaatg atccgatttg aagcttacac tgaataccaa ctcagcttga 420
 gattaggtaa atcacatcca ctatcatcaa cactcactcc cgcaatctgg ctcaaatgc 480
 attcatgcag agcaatgcc tgaatatcta aaacttcgag ttgattatcc attatcctgc 540
 atgaagaatt ttcttcttct tacgctaact gttatagtat accggcgcat ccatccaatg 600
 aagccatatt ctaggaacca accgacctat cgctgtccc caggttcgtg agcactgacc 660
 cggttctcag gttcttcact gcgaaagtcc atgaacgcgg cttaccctt ggcgccatta 720
 tgcgcctcag tgcggatttc agtgctcaga tgcgaattc ctcagttatt tcttcgatcg 780
 ttgacaagtt gtcacatagc cccatattga gggaagactc gtatcccgca agatgcgaaa 840
 tgcttctcac tcgccgacgg tggaaagcgc gatatgagca ctgcgagaaa taagggtggtg 900
 gagcgggagg gcaaggagga cgtaaccgga ggttcttgac gaccttcacg tctgacacag 960

gtgtctccca caaatcccag acgcttgggg gtgtggtatc tggatcgta cactcggcat 1020
 tgaggctaac ccaggttcgt tgctgcagct tgcggtcgca gtggtgacaa gccctgtact 1080
 ggcaacgacc aggacgagag tgcacatccg cgctaagtcg gctttggtgt gtttcgaact 1140
 gatgaaactc gtactgctgt tcagctccgt ggctggggtc gtaacagctt ccagacatag 1200
 atagagtcct ttccatctcg cacaactcca aaacctccag cttctgttgc cacaatttgt 1260
 ctctctgctc tgcggtgtat tcgccctcga gaattgcgtc cgttatccat tcgctcagca 1320
 ggaaaccggt acggtctgtt gacgctgaat agtcggttgt gtcctcagtg cagaggtaga 1380
 accatctcag gaagggtcct ctgccacaag tgttgcaggt ttcgtgttga tcgatcctcc 1440
 actgacggat tgcagtactg tgagagcagc tatcatggcg gctttgttgc cgtgggtatg 1500
 gagctaccac aggagctgtg gcgtatggct ggtgattgga attgcctggc tcctgggatt 1560
 cgttcgttgc ctcaacacaa tcttcagcag tgtcgactga ttccacgtgt tggaaagacg 1620
 ccatatctgg gtctgggtct gtgtctgggg acacgccaat caagactggg taagagccca 1680
 cctcttcgcc atccatgatg gctggattgg aattgcagac ataaaaagaa gtccagtgtt 1740
 atgaacttaa cagcataaag agctataagg tgaatccttc tctcggcgca accctctggg 1800
 tgatgttcca gtgcaacctc atacaggat tgaatagaat acatagtgtc cattaaggctc 1860
 ttttcacatc tattagagcc tctaaaatgc tctttttgtg caaagaactg ttactttcat 1920
 ttctgtataa agtatagatt ctagacctgt ttgaccagac aatatatatt tatgcctgag 1980
 gcatcaatgg taaataaagg cgcaagcgca aagatattaa tcagaaatca aacaaaagat 2040
 acccagaacc catccattgt ccttctactg attaatacata cagtgtggca attctcagat 2100
 tgtcattgtc ttagacacca tgatattgct gcggagtccg ctacggcagt ttgggggtcg 2160
 gccacttccg atgccgctgg cctaaccgcg atataaatcg agcagctgcc ggctcgtgg 2220
 cgcccaactca atccccctcc actcccagag tccagccatc agtccagac cacattcctg 2280
 actctccgga gctgttttcc aaggagtttt tgcattctct ttgttgaaaa cgcggtgtcg 2340
 gctataacaa tcgcggaacaa gcgccctgag tgaccagaac caccaattga ctccgcatcg 2400
 caacctcggg aagctccagg agtcccgaat cgatctggtg ttgtccagcc tctccataaa 2460
 caaacaccac ttcccctatc ctatattatt attcgcccaa cgatcccaa ccccatattt 2520
 tccgtcttgc tccctgacct gccacgtctc atcgctccat cttctttccc acatcgtctg 2580

tcttcgcgtt tctgttcat tgcttttct tgagctcacc gcgttctcga tcgctgcagg 2640
tctcgtctta tcgctcctcc accatcgcaa ccatgtccgt caagttaa aa gacgtgcaaa 2700
atgcagctac cgctgcggcc tcggcggccg acacatctat ccgggcggac acaaaagagc 2760
tggcgcacaa ggtcggcgag cgcctgactg gaggcaatcc ccagactggt tacctagccg 2820
tacgttcctt ttgtgaagac tgggaatttg gtgatcgtac ctgactgatt atctcgcgca 2880
cagctgtacc tacgacagct tcagtcacac ccgctgcgca cgaagatgct cacctccggt 2940
gtgctctctt ctgcgcagga gttcctcgcc tcttacctcg ccaacgatgt agcaagcatg 3000
ggcacctact cagctctcgt gtccccaaga agcttcttta ccggatggtc attagtcccc 3060
ctctgggccc acgttctggt cgggcattcc ttcagaaggg tctttcgcgg gtcgcaccag 3120
cttgaaggcc aagggttttc agattctcgc cagcaatctg attgtatgcc cttcgtcca 3180
cgagtatctt atgtctgtgc cagaacgctg accggagttc ctaggtgtct cctatccaaa 3240
atgtggtcta tttgacctgc atggccatca tcgctggcgc tcgtactctc caccaggctc 3300
gcgcaactat caaggccggc ttcttccctg tcatgaaggt tagctggatt acttcaccgc 3360
tggcgttggc cttcgcccag aaattcctcc ctgagcatac ctgggtgcca ttcttcaaca 3420
ttgttgggtt cttcatcgga acctacgtca aactcacac caagagaaag cgccttgaag 3480
cgctgcggaa ggtaagcctt tctgagcacc tgccttatt ctctccgct gactcctcgc 3540
agcgttacga ttcccgcgcg ggcggccccg gcagcgagta cgagaagggc cctggaccgc 3600
actaccggtg aaggatgtaa tttcctcccg gacaaatgat gacagtcgag cacatatcgc 3660
gaaccgcatg atagaggcat ataactctt catcgatcgt tcgacaccag attgtatact 3720
cctacctttc cgatcatatt taccctctcg cttccttctg cctctgttca agtacggcgg 3780
actggatcac tctatacttt ataccgtctg ttagacgaag atatgtttaa gcttacgatg 3840
aatgggttgt attatctttg tttcttacgc ccaatctaca tacttattac atagtgtgaa 3900
tttatgacgc cgctcgggtg atctttatt ctttagacca aaatgggtccg tgctatccca 3960
tttgcatggc cgacaacat gcagtaagt caacaccctg cttgttcagt cgtcgacgga 4020
atttagttgc ttaagtgtac tttgtctacc tacttaggac ggatgacagg gagagattgc 4080
atgtgacgat gtggcatacc ctctgaaaa tccacgattc tcttgattac tggtccccgt 4140
caattctgtg attgcaccct tggcacactg gacctattc ctccatagct ccctcatccc 4200

ccctcttctt cctaacccaa gcaacgaagt catccagcgt tccaggccaa gccccgtcct 4260
 cactccacca cccaaaagcc tcgtcctcgt gggttttgcg cataaaaact tcgacctgtt 4320
 gccacaaatc cttgttgacg ggctttttgc cgcgttcttc aaggaactca acccaccagt 4380
 ccaaccaggg agttgtcgtc gtgttccagg caatcccgcc ctttggcgtc gtgaagaaaa 4440
 gattccactg ttcaacggcg atttgcgaatt gcaggttgcg ctggccctgc actaggcaga 4500
 ggggaaatgt gtagcggtaa actcggcgga agaggtcggg ttccgatggg atgcgtgtac 4560
 ggagggtttgc cgcgtgggcg gccattttgg cgatggagtc gcatctgata ttgttagatt 4620
 ggcttcttcc tgagtgtcgc gagtactggg ccttactgga cggatctcca gccgtttagg 4680
 aagccttcgc gggtaaattc acccatggac ggtgattgga gaagctcagc aatggcgaga 4740
 caagtaacct catctagctc gacctcaata tcccctaggt agcgcatggc gccttcaatg 4800
 ccaatagtat ctggattttc ttccggtgaa tctgtatgca agttagcttg gtcctctact 4860
 catggtggtc gtttaaggat atacctcggg actgatcaaa gatctggttg atgcggtcgt 4920
 cgagccgcct ccgccccag aactttgaaa atacctgaaa cttactatca gcatatgcat 4980
 accacgaaac tcttttagca gaaacgtgaa gccatagaga tacaagacc agtccgccag 5040
 tgcatcatta ccagcgggca agcccgggtat tagcttttgg aagattgata ttcgaagcac 5100
 tgcttcgcgc acaccagcag ttgcacaagg ctagatggaa atagcctccc accctaattc 5160
 agaccaggac gaaaggagaa taccaagact aggaatgcgc gaagacctag cataggttac 5220
 catccaaaca cggtaaacca cgggtgtagct tccaaacgat ggccgctcat agcctggggt 5280
 atgtaggcat aggatcgct aatgcaacaa agtgtttgcc ttgttaggag gttgaagggt 5340
 acaaggccac gcaattcctg atcttagctt acgcggaaga tcaagcccat agacgccggt 5400
 gcaatgcggt ttttaaatct acgcaaagac gcccaaatgc tgggtgtggaa gctgcatttc 5460
 ctgtcctggc tgcgtgatgg agggaagagt gtagaacata gccagaagc aagaatatag 5520
 atggccgact tacgcatcga tagcctcttc agtgttccat cggctttgcc tcagaaactg 5580
 ttcgccaata tgtcagtata tttgccatca cgtgatgtat aacgtttagg tgttggtgtt 5640
 tagggtcata tctagagaag ggggatgaaa taaacgacta attccagaaa ttacctttgc 5700
 agctgttgta ttattggcct gtgtgaagct cacaaactga gttatttgct gcttctgggc 5760
 ggcagtgtat ggcggcatgg cggggtgaac aggcgagggg tagagacaat cttctaagta 5820

ggctgacgac aactgacgat gacaggcaga ggtgatgtac tccccccaga cgtttcgtaa 5880
 atgttatatg tgagtaggac tgcttgaaa aagctaagag ctacttaaga aaccagggtca 5940
 tgccttggaac tcaactgaag attcacgcac tgcgccagct gctgactgat ccaggcacgt 6000
 gctattcagg gctccttcct attaattagt gccctagcaa tctagcaact ggagagcttt 6060
 tttctttaga gttagagtac ttctagcaac caggcttcat tactacatca gtcagtgcaa 6120
 aaaaaattac ttctctctaa aagaatctgg tacgtgtctt gcctcccagc tgaccgttca 6180
 gagtaaacag cggtggatcg gcgactagcg ggagttcttg gcgctggaaa aatagcaaaa 6240
 aaagtttcca gatcgtcgag actggtacac tccagttttc cagctttagt cttgaaccca 6300
 gacggacgtt tacagatggc tcccggacgg acgacaaaaa ggagaagggt gagcccaccg 6360
 gatgaagaag agaacgtttc caatcgcaag ggcgactttt attcccacgc cgccgaatgg 6420
 gacctgaac aagactacga gcagcggccg cgcaagctga acaagaagga gaaggaaagg 6480
 accaggcttc cgattaagac tgcggaagggt ttccagaatg tcgaagcatc cgaatctgag 6540
 cccgaagacg atgacagttt cctggcgact gacgacgatg acatggacga ggacggcgac 6600
 gcggaggtag acgaaacaga ggaaagcgag gaagaggcgc cgaagatccc attgaagcag 6660
 cagattatac aagcgaagga ggaaatcgct cgaacggcaa cgctgattaa cgaagacccc 6720
 gaagagcata ttctatcggt caagtcgctg gctgagatgg tagacggcgg atcacacgtt 6780
 gcggtcaaga aactggctct tgcagcacag gcagcgatct acaaggatgt catcccggga 6840
 taccgaatcc gtccgctgag cgaagaggaa gcgtccgca aagtctcgaa agacgtgcgc 6900
 aaattgcgga attacgaaca gtctctgctg tcaggctaca aacattacat tcagaagctc 6960
 ttggctttta cgaagccttc aaaagaaagg gcaggtactg ataacgggat gaagactgtc 7020
 gcgatcaatt gtgcctgcaa cctgattcta tccgtaccgc atttcaattt ccgcgccgag 7080
 ttactgagga tcctcgtaa tcagttggcc aggaagcgcg ttgatgatga cttcgtcaag 7140
 tgccgggata ccctccagga agtggtcgct cgggacgacg acggaattgt ttctcttgag 7200
 gccgtccgcc ttctttcgaa aatgatgaaa gccagggact ttaaaatcca cggcagcgtc 7260
 ctggatacat tccttcacct ccgactgtc cgcaattct cttcaaaggg ttcaagagac 7320
 cgagtagacc gcgacaatga ggaagaaact tctggtggca agaaaatgaa acaaaagaaa 7380
 gaatggcgca ccaagcgaag cgcgaagctc gaaaaggagc tctcaggccg tgaaaaaaga 7440

catgaaagaa gctgacgcgc tcgtctcgca cgaggccgcg gacaaaaacc aagctgagac 7500
tctcaagctc gtctttggca tctacttccg catcctgaaa ctccgcgtcc cgaatctcat 7560
gggtcctggt ctgcaagggtc tcgccaagta cgcccacatg atcaaccagg acttcttcgg 7620
agatctcctg gaagccctca aggatctcat cggacatgcc gaggacgacg agctcaacga 7680
ggtcgacgat aacgaagatg atgaacacat caactccgcc tcttcgacaa ctcgcgactc 7740
caccgcgaa tccctcctct gcaccgttac agccttcgct cttttggaag gccaaagacgc 7800
cagcaaagcc gccgcagctt tgcacctoga cctcagcttc ttcattaaac acctctaccg 7860
ctccctgtac actctctcca caaatccga cgtcgaattc aacccaatg cctctaacgc 7920
cctccgcctc cctgaccctt ctctctcgca acaacagcaa cagaacgcgc aagaccgcaa 7980
gaaaaaagta aattttccaa cgcccatcgt cctcctcctc cgctgcctca atgcct 8036

<210> 5883
<211> 7033
<212> DNA
<213> *Aspergillus nidulans*

<400> 5883
atgagttgac gccgatcagg gagcggagtg ccctaaggag tctggatagt gtgaccgagt 60
aaggcttata ctttaatttc acaagtagat atcattcgat atatagttgt tgaatcacat 120
gacttgggtg tttctccgca ctactccacc gtctctcttg atatccaact cccacgcgat 180
ctcatttcta gttgtcgcta tagacaacac actaggctcg catccattct ctctttacat 240
ataagatagg caggaactaa aatgacaacc cttcctaattg tgtggcacct ccggcgcgtg 300
gcggatacgg ccgcaaaagc ctgcctgac tgctacaaac catccagcag tgttttaatc 360
acgccaaca acaaagtata cacatgcacc tttcatataa atctcttcta ttctgtctaa 420
ggggatttat ggtctaacac aatctcagga ctacttctat gtttgcccg tgcacctcaa 480
ggaccggcat ttctgctcgc ccattgttga tgccgaggaa gaggcagcga agaaaaaggc 540
cgaggccatg gcaagggaga tcgaaaaggt aaagaaggag tatgaggaaa agcagcaacg 600
aaagaaggag aaggagaagg agaaggaaaa gaatgacgat cctaaggacg acaaggacaa 660
agacaaggaa gactctaaaa aggcagacga taagaaggaa gagaaggagc gggatgataa 720
ggttcgttcg tcttattctc taatttggct tttttttttt ttgctgacag ctggtagatt 780

gacgctatca aaaagcaagg tacatctacg acagatgact cgccgcggat cttcgctttg 840
cataagtatg gacttttttc tatattgtca accctagtgt ggagtcctaa gtgggtataa 900
tctgacaggc atcgcttagg aacttctacc aaatgcgcat cgacagaatg cgtaacatag 960
aagccgcaa gcgcaaccgt caacggcttc aggaccctc tttcttcccg tctgttccgt 1020
cgggtgggtc gtgattgcaa gtaaataagc ccacctctaa cgaagcggga aggaaacgtg 1080
gcggggcgtc acaacgctag gcgtccgcac aacgcgagtg ctgctcggtc tacgcgcgct 1140
cgagatgacc cgagcgacct tcaagcgtgg gtgtttgata gaaggggaat gatcccacca 1200
aactttggat taggacttgt tatgttctaa gatttgcgca agaaacaggg ttcagtctgg 1260
tatgtgtaac atgccgattt tgaagggc ctacctcat tctgaccgg catgcatggg 1320
cacgatatga tgacatgggtg tgggtgcgata tgatgcgcgt acgtgagcgt tgtgcaggca 1380
agggaacat cagcgttcgt ctgcaggcgt tgcgtccccg ctgagacggc ttaggcactg 1440
attgcttgct gactgctgtc agcgtcagcg caggttcgcg ggctgtctca tgctagactt 1500
actcgggaca tataaggcgt ccgaaggcag cgaaatctgg ggaagctagt cgagattgca 1560
aaaacacgtc ccccgagat ggagcttaa ttggcgcatt aatccgaagc actgtctgcg 1620
attacagagc aagctagtcg acattcatcg acttcagatc aagtcggtct tccccggta 1680
tgccaggta tgccaggta aggtgtcagc tccgtagaca gtcagcacta acatccctcg 1740
gctctaaca ttgtatctaa gaccacaaga ccgctgctc ctctcgcatc ctacgtcat 1800
acacaccagc tcgcgcaacg gcagcgcagc cgcatgcgc ggcgcatcta tcagcactaa 1860
ctctagtgtg gtgcagtact tactaggtac cctgcagtct acataggaag ctgccgccag 1920
cgctcgctca atgttgccc aaacgggtcc accggcgaag cagataagcg ctagtcttag 1980
gtgggcaaac gcacgcccac gctcaacggc gacgattgga ttttgcatg tctgatattc 2040
tcattttgta ctattgttct ccgtcttccg ccttggtgtg caagccattt aacgcatacg 2100
gttctgggtc tggctcctaac cctcaccctg accctcgccc aaatcctggc cacagaccgg 2160
gtcgttccta catcggtgca gccctagtgg gatgggtctg aaactatctt tacatcggcg 2220
gttcgtttct ctacgggaca gttgctgcca tggactaaag catccgtcaa ttccattccg 2280
ggaatagggc aacggggcaa tggggcaatg ccacttgcag tagatagccc gatacatccc 2340
ttacttacct gcatacgaga atgagacaaa ctctacgaa ttacgcccac cttacgcact 2400

tcgtcacttc cacttttagtt tcgagggtag ccagcagatt tgacccgcct gaacaaccac 2460
 gggatatcaa gggtagctct ggagataaac acgtccagaa agccaactac gcaagtcgac 2520
 aagtctttta tagttcatta gaagtataat catcaatggc acccttggtt agagggatga 2580
 ttaccgcgaa gacaatatcc aggtagcgtg cctggtgaag tcctgttctg ttcaactttg 2640
 ttagtacggt aactgtctg tcgaaatggg tagctaccct ctcttcctat tacccttcct 2700
 agtacccttt ctctagtaca ctaggaaata aagtgtcacg gtcagtctag tcaaggtaga 2760
 cagacctcgc tgatcttcgc aaggaaagat acgactttgc actcagacca aagcacgttc 2820
 aaccctgctt gggcccttc aaagtcggca tcagcttggt ccattagagt tttcaagtgg 2880
 gagacgcagg gcggccttta ctgcatctag attctgggtt acagtaagaa atcataatca 2940
 ttatcttgag tcctgccagc ctactcagga gctcgtcgcc ataggtagca tagtagcaga 3000
 accgccactt aaaaagaacg ctactgcaa agttcgaaat tgacatcgaa gcatgaatga 3060
 gacataacac ctgtcttgct catcccgtat catgccgtgt acaaccctta ctttgccact 3120
 ttttcagggt tcttcgatca ttgcaactgg agagctccca agggttgtag tgcataatggc 3180
 actagaatct ggggccccct agtaaaggac acttatacat atctcgcccc attccgtctc 3240
 taatgttcat atatgtccgt atatatgcat gcaagcacat caagcccggg acagcaagca 3300
 tattaggaac actttcgatt tagccggaca tgactgtcga cccgtagcac ctgaacgctg 3360
 cactataaca aggcaaccat tttccaggtc aaagggtgct accctactgc ctatctaccc 3420
 tgcgctgtac tgcagggaca gggataaggg ccgagccggc cggctctaaa cctggaaact 3480
 cagagtcggt actatgggct actactgacc agcaattgag gcagtgttag gctgcatcaa 3540
 ttcgactccg accagctttg ggcgtccccg attgtagctt aatagggagg ctgacgacga 3600
 cactactgaaa ctaggcattcc atctaatacga tccgccgggg ccctctatcc ggctcgtcagt 3660
 gccgccttgc cagatgtcta cgtaccgtca atgccggtga agaacgttct ggctgcagag 3720
 cagtggacac cggagtgacc tgtatctcta ctgcgagtgg aaccatccgt tcatgattac 3780
 actagagtac tgtaagtga atgaacagga cgaatttg ttaagacggg agaaataaag 3840
 tccaagatgc cttgagcagc catagttggc catccggctc gtgtctgatt aggtcgataa 3900
 cctaattctc tggcctcaag agtgccagaa tgataacttt cgtaccctcc tcattttttg 3960
 ctctttttgg ggctggaagt atagcccgcg ctcgatatg caactggaga ttccaagaac 4020

aagaatccag aatgccaagc accattttaag tttgatatgc gtgtattgct tgcattcagt 4080
ccctgcgcaa caaggtctca gaatggagct gaggaatggg aactgtgctg gagtacgtag 4140
acgtagtcga tgtaactcga tattcttaga gtggcgcat tgggaaccgg ctgccagagt 4200
caaataatttg ataataatcg actatcagct gcagcccaga ttgccacgag acgagtccgt 4260
gtactgcgtt ttgaaaatta cgcgcgaacc caagctccag aaacaaggga gaatgtcagt 4320
cgtgagcgtt gagggtcgc cgccagaggg cgttgcgtaa gagcagttgg cacagcccc 4380
ttcccggcgc tagtgatcca gcctagcggg gcccttgcaa ggtggagtgt gccgctggaa 4440
tgttcttcca cgccgaccgc ccatgctgca gatccccgaa atgccttctg ttcctgagcg 4500
tccgagtttc aacctcgtct tgcaaggaca ggcggcagga cacgcgcacg attggttaat 4560
ctggcttagt aatggcgggt ccagcctcgt gggatagatg tggggttctg gccctggttt 4620
taggttctc aggttcaac cttcaaaaac tgcaaggctc tggcaactaa gcatgggggt 4680
tccatgccgg ctgctctatc taggggctgg atgctcgggt tgcgtaacag gtgaatattt 4740
ctatctcggc ggctacctgt gctattggag caagcgttgc gtgcatccga tcctttacgc 4800
cgacaaggaa tctgaatgag attatgagac ggcgatctg gcggttgat ctgcgacttc 4860
tgaaacagca gcgaattgac gccaatcaac cctaaatag agtttcaacg tttaggtgtc 4920
ttggctgtgc ttgcacatac tctgtaccgt tctgcgcacg taagggtcca tgactccacg 4980
attccataat ccgtaccgtc ccagcgggtc gccctttctt agttcctggc ccctatctcc 5040
ctccccccgc tctggagatt gaggggcggg gtccctcattt cgtgaaatga aatcgaagat 5100
cgcgaaagcc acgtgacgtt ctgggttgcg tgcctcggat atcagacgca ttcgctgcca 5160
ggccgaacca ctccagctat gcaaagagca aaccttttcc cgcgacgga tcattacgta 5220
ggccgcaccc gccgcagact gttgattttt tttgtcatg gccgcgtca gactgcaatg 5280
aagtcgattt atgacgttat ggatcaaagg ctgcctttcg cggtatccct gataacaaga 5340
tttgtgttac tttctcctcg tatttatagt gacagctaag gatcaaagct gtacaagacg 5400
tacctttcac tttcaggctt gacaccagcg gcacctataa taggtctcat attcgggtggc 5460
aagcggatac cagaaggtaa accggggccc cgtcgatgg tgactggctc cgagatgtcc 5520
actcttgccc tcgcaaggcc aattgcaggg acaaccagc cgccgcagct acattgcatt 5580
ccctgccacg caaactttcc aatgttggat ccgcatgagg aattgggaca tgtcaaccgg 5640

cctgacaaag gtgcatcccc aggggtgtca gggaaaagac taggtcgcat ccatgttagc 5700
ggactcatga atatgtgtgc gactcagag attattgcgc cttttacatc cccatgggat 5760
ccatgtggaa acaacaaatg gtgogatcgc cagctttcgc ctatttatag tgagtaaaat 5820
cgctgttttc agaaattaga agaccgcacc tgcatttgcg gcattttatc tccgttgctg 5880
gacccgtggt agctacattc tgggtgcgact gttcgtcttc gaaataaacg gagtccatct 5940
cgggagcacg ccagcaggca acgctctctt caacctctag gcgataaagc caccggctgt 6000
acagaggggtg ccaagtgaca tcatcagggc atcccatttg gtagtaaaca ttgaactgct 6060
ccatgaaccc cgggttgggt tcacatagcg gtcgggattc cctaagaaga gcaagagcgg 6120
actgcggtgt gagcgcatte cgttgccgac gcaaaaggta tgcaatgcag acagttgcgg 6180
agcgggattt ccccatcgcg ctggatgctg ttagtggcct acaatgaagc aaaggcatcg 6240
tagggacgac acgtggtgtc taagatgaca ctgaactaga tgagacgtaa actaaccaat 6300
gaactagcac gccgccacct gcactaagc cagactggat gaacttgatg gctgacggaa 6360
aatgctcaag tagattctca tcactaagt catcgacctc gatgcggtga tgctggtagc 6420
cagcgaacaa atcatccttc ggccgtaatc ggatcactga aaggacatgg gtgatgttgg 6480
cgccgctcat ggcaacctta ttcttcaggg cgaatacgct aagggatttg cgtagcagc 6540
cattttcaaa tccctatggg cttgcttcct agtaccaacc ctccgatgta gatgttatag 6600
ccgggaacct tgttcatagc catggtgttt ttattgcata cagcgaaggc tcgctgtaaa 6660
tgtcctgaat agcactaaca agagagaaa accaggttta tattgcaata atgtgagaac 6720
gtagagagta cgcctttgcc tgactcacac tctgactttg gggatatttg agttgatatt 6780
cagcggcccc gccaaagactt taagagaaaa tgattggcgc tcaagtcggc caaggattac 6840
caaatcgaga gagttagggc ccagggtgag gttagggcta gtcgcgtgac cgtaccaata 6900
ccccgcactt tcgactttgg cgtcgttggc tggtttcaag caagtctcag ctcttgccgc 6960
caaccacgga tggcccaagg ctacgggca ttccgatggc tgcacatgtt ctccagattt 7020
caggcccat aga 7033

<210> 5884
<211> 12433
<212> DNA
<213> Aspergillus nidulans

<400> 5884

tctactccgt agcccttaga ccatgtaacc tgaaacccat taggtctctg ttagcactaa 60
tacggaaact atgcattgtc caagttaatt gttctctctg ttgcctatgc atgtcttact 120
acctaacaga cccacttatac agcacctaac tagatggcct tccctggcct taactgctta 180
tgaacttaac gccgctcatt tggagatggg gggcccaggg ccggggccgtg ggagaaactt 240
ccgcgctttg ttagcccgtc ctactactc tataaatgag tgaattccta atagtcttga 300
tagtcttcct taatcctaatac acaccatatt tctctctatc tacaggcccc tctgtacaag 360
atagcctcca atggacacat caaacataaa accatactac cttcctgcaa atgcagtctg 420
gcttggttag tacctgtgta aaaaagcccc ctatacggag agactgccta acacgttcta 480
caaagttacc ggctgctcgt cagggatcag ccaatccctg gtgcaactaa tcgcgaaatc 540
ttctaactctg atcattgaga ctgctcgtaa ccctggttct ttgtcttcaa ttctagatgg 600
ttccagtgtc cttaagctag cactggatgt cacgtcaatt ccatcaattg aggccgctct 660
aaaagagacc ctaacaaagt ttggccgtat tgacgtcctt gtcaataatg cagggcatac 720
tcttgtgggc gatactgaaa tagcacagga caaagagtca tgtcagttgt ttgacactaa 780
cttctggggc atggttaata ttaccaagca tgtcctagga attatgaggg gaaaaaaccc 840
caatagagga ggtgtgatcc tgaatgtag gtctatgggc ggatttattg gtatccctgg 900
cggctctttt taccatgtga gcaagtttgc cgtagagga tggactgaag ccgtcgcgaa 960
ggagttgcct actgagtga ataataagtt tattctatgg ctattattga taatgtggct 1020
aaccaaaaaa agaaaataaa taaataaata aataaataaa tacttatagt ccatctatgc 1080
aatattgagc ctggtggtgt caaaaccaat tataacaacca ccttgctgaa gactatagca 1140
aaaggggaca cccagcctat gctgacctga actatccac caacactctg ctgggggtata 1200
taggtaaggc agaaaactgg gcttctctggc cagaactaag cacgattact gcagctatat 1260
attgacttgt tagttgcagg ggatgtattc ctatttgtgt tctactaggt gctgatgcct 1320
atagtacaat tactatggac ctggaaagta tcaagaagga tctagaggag ttgaaagata 1380
tcagtcttgg taggtgatgc aaagcagctg gactctattg gtttcttaca gaaggcttag 1440
ggttgggtct gaggaagagg tggtacttag gcctttagaa aaggtatatc cttatttcta 1500
gctttataaa aggagaattt ggagctaccc tgctctttac aacctataag agacaagata 1560

cttaaaatag aaatagaagt aacagtatat actgagtagt agcaagttaa gcttgataga 1620
 gagcaggtaa ttgctccac acgcagttcc ctgctaataa agctcctata ctgccttagg 1680
 ttacctacat taaccacctg cagtcagaag ccaggtatca gaggattata agggattaca 1740
 atagcactgt gttgtagttt gtggaatact gtgttagttt atagtagctt tgtctgtact 1800
 tagcaggcca gctgaggcca gattatttat aatatatgca agagtacaga taatataagt 1860
 actctttaac tactttcaag attatatatg cctttttctg taaacctgac ctggattata 1920
 tatttatagt gtcaggctctt gcaaggctcc tagcaacct ctgggcatct aaataccttg 1980
 gtatttgtga ctatctctag tcaaataccc ttctactat agatctttgg cccgccagca 2040
 aagttgatga gttcttgtca agtttgcata ttctctcatg caatttacag gaactgaact 2100
 tggatcctg ttcttagata tagatttcct tattccaata aacaggggcg gcattcttac 2160
 ctactatata ctccttttac tggccttgcc tcaagactgt tgtcctaaac aggattcctg 2220
 taaatctctt atctggcatg atttcctgcc cctctttcta tacagaagat gtctgcaat 2280
 ctaacagata ttcttacag gtaaatagct atttaactac aaacttgaaa gtggcgacgg 2340
 gattttcaag agccccctggc tgaacggcgg atacagtatc tcctgcgaga gaatgaacac 2400
 cgagcacttc caccggctgt tcatttcaact gaactaggcc gcgcggtgga tgctgtcct 2460
 gcaaacaatc cccctcagcc tccgcggtt gccatacagt acgggcagta gatacaatat 2520
 aagacctgct tctgtcagag ctaaaagtgt taagttacag cacaacatg agttgtctat 2580
 tcaagaatca tcgctgtaca atcccatgta acaactcctg gtcatagaaca actacaaggc 2640
 ctgtttccct ctgtatcaat gttgcttcta acttgtttag tacatacgac cacagggtgt 2700
 ggaaaacagg gcttcccgtc cgctcagccg tacttaagcc acacgttcaa cgcggatgag 2760
 cgagcaacga gccctgggtg tgttgctgct tttaggggtg agagacacta agcctagggt 2820
 gagtgcagggt gagatgggtg agaacaagggt gagaatatca cccacccgag agtgtgggga 2880
 gcgagaaggg tgagaactaa aatctaggcc actactataa tccctccagg cttaacattg 2940
 tcgtggaata tgctcagagg agaaagggca ggaggaaact gcatcaacta caccaacgtg 3000
 gcctactaag gatcggtatgc catatgacga ttgacaccta tcttggtgac gatagattcc 3060
 ttcatttctt cccctgtgtg tattcctctc ttcccacta tatatataca gagggtagga 3120
 accttctaga aacaggcgat gtccggtcaa tctaccagag atcacgtggc ctcatatttc 3180

cgtatcaaac ataaatagca agggcttttt gactttttatc cgatgctttt tgaactgaaa 3240
 cttaaatacct ttacacttcc atcttgtata cattttccct atcctgggtgg tttggtttta 3300
 ttattttaacg tcaactcggcg gatcacgggg ccacagtgat ctgcggcctc ccagggggca 3360
 tctggacgtg ctacctaaac agaactgcct aggaactagc tagatacagg tttgaagcag 3420
 caactatgga caatatatgt tggaaatgag cggaagaagc acccggcgct gccctggcca 3480
 ggtcttcgag ggcagatgcc cgtttcgact acctatagat tggggggagg ggccggaccc 3540
 tttatccagg tagatgtgtg gactgtcgca ctatcaagcg ctccggcggg ccagttcgg 3600
 gcatatatcc ttgaagaagg atgattcttg cacgatgcgg ctgaattctt cagccccggc 3660
 agctgtactt aagagccagt ctattgtttt tgacggggcg tcccttatac atctccatct 3720
 atctttccag cgctttctgg tgtatgggca gaagaagaag tgcactgggg tcttggtcct 3780
 accacaagag cagctctcca ggtagtctga gtggttgaag cgttgggtgt atgccgtaaa 3840
 gtctccgtgg cctgtacggg cggcgacgag tcggccaagt acccaacggg gaagcttgtg 3900
 ctgcggggtg cggctttcct ttgtatggaa tctgatatcc agggctctgt aggcttgggg 3960
 tgccttacta gcatatgctg tatatgtccc tgtacgaagc cactgttttg tctcccgttg 4020
 taggtatgca ggggatgggg ggatgttagg gctgtatata gaggaccaa cgttcgcaag 4080
 cttgtctgcc agctcgttcc cagcaatccc agaatggcct gggatccagc agacttgaag 4140
 gggcttccat ggctgggta ggattgagg agcttccaac cactgggtag caagctggcc 4200
 aaacggggtt gggcggggtt tcaggcctag ctgatccgcc cacgcggggt ttgggggtggg 4260
 ttaccttcac agtaaaccgc ccatgggttt agcaaataat tctaaccxaa cctaaataac 4320
 ccaaaataac ccagttatgc atatcattac ttttaataagc agtgatctac atagttaata 4380
 aaatactgta ttttaactg tattataact atctaagtaa gaaaatataa tctaaataca 4440
 gtaatatacc tattcagata tcttggcaac ccagcgggtt gctccgccgg gctttggggc 4500
 agccaaaaat atccaaaacc caatggataa ttagaaggtc taaccaacc catttcttgg 4560
 cgggtcgggg cgggttgggg caggtttcgt gggttggatt taacaagtct aattatatct 4620
 aacttcatca atttaaaaat tctttttatt aaacttagtt ttattgaatc tctgtatcta 4680
 aaacatcatg gcctgatata aattatttag taaaataata tgtattgtat aattttacta 4740
 taaaaaata aatacacgct tcttacagct gaaaaatata tatacatgtt aagggacgta 4800

tttagatgga tcttcctatc tagacgtgcc gtacgtacaa gaaggaatcg ctaaagaaga 4860
 aatgagaaaag aaggattggt gttgcaagga agtctttagtag gtggctcacc gccttcagga 4920
 cagcgcaggc cttggccgag tcaactaaggt ctaaggctct tgtataggca aaggacccat 4980
 aacaatacac atctcaagtt ttagtctacg ttgctccaac attaccaaac tattctagta 5040
 gacttagaaa gcaaacctta taagcttaag gagcagtctc taaacctaaag gtttactcta 5100
 tattactata atcctataat gctgcaatgt tataatgcta taatactgcc atgccagcag 5160
 cagctatctg gcagatgcca agacaatata ttattagatg ttatagggtt gtattacgga 5220
 catcagaacc cgcacggatt tgcgggtcac cgcgcgggtt ctctattag aaccgcgaac 5280
 ccgcgcggac tgaagatttt gcaaccgcga ccgcaccgct gcggcgcggt gcggtgaccc 5340
 gctgcgggtt gcggtgcgga ttgacaaccc taatctgatt tcatcaagca acatctcctt 5400
 tactggttag aaagccttgg ccttattggt gagctctggc atggggtcct aagcctcaag 5460
 aagctttcag cttgtcagag ccagtattag gctatcttta gggaggctga aaaatttgca 5520
 agtactaatg ctgtgataat acaggaggcc cctttacaaa tatatagtgc tatacttgtc 5580
 ttctggccct gagaaagctt aagcaaaaga atgtactgga atcagtgggt taactttata 5640
 gagcaggcat atgttatgca ggagtcctgg gaccatggt gtcacgggcg agccagctgg 5700
 cgacgacctg gccctgtgac acgtgacccc aatccctcaa ttcccacgta acgcggacgg 5760
 gcgccttacc ggtgcctatc cgccagtagg aatatgaggg atcgccagag ccgtaccggt 5820
 ccgccagtag gaattcaagg gacgagccgt actgggatca acccatatat tgttgacgtg 5880
 ggatgtggtg gtgtacgcaa tcaccaatgc gtcactgtaa tggatttgct tggagatgcc 5940
 aaactaacca cactggaggt tatataaagg gcctcctgat gccatgtata tagaaatctc 6000
 caagcaatcc tttcaatatt cttcagtacc aatcgagctc cctccattgg ataattatcg 6060
 gtgatagtca tcgcttcggt gtagctagag aaccccgacg ttagatcacg tcttacacat 6120
 gtatacaggt ccttgagggc cattgaggcc cgtctgcgcc gtggccttct cacctgacgg 6180
 gcagacagtg gcgtccgcct ccgaggacga gaccatccgg ctctgggacg cggcctccgg 6240
 tgctgagaag cataaacatc atcttgatgt agtagtaact actttgtcat tctcagataa 6300
 cagctgcctc aatactgacc gcggttcact ttctttgaac caccaagctt gcaacttctc 6360
 cactgaacag ccaaagaatg aaatattcat acatgagaaa tgggtgactc gcagcgggca 6420

gcgcttgatc tggcttccac cagactttca ggcgacatgt gcggttacca gtggcaataa 6480
 agtgattctt ggccatagat caggcggtt gacatttttg tggttaaatt aacaaatctc 6540
 gtcctgtgct gcatgctatt tccccaaagt cttctcaacc atcttccaac ttactctatt 6600
 ttctagtctc tctgtaaaac gggggccagg gggccacggt tactatatac ttgttgattt 6660
 gaaacaaatg atactccaga atattctata taacctgtac caaacaacgg taagcagtgg 6720
 cagacagaca attagtggtc ccaggctcgc gacagcattt ttaaccatgc cgaagctggt 6780
 tcgcagattc cggatcccag agggcaattc attgcgagc ggagcaagcg aagcgaacgt 6840
 agcagagcaa ttataaaaat taaccgcgag gctgttagac caagtatttt gataacaatc 6900
 aatgacgact tcgcagcctc tgcaggcaaa cttgggtatt actgatggtc atattaatat 6960
 tcgatccaat ccaccatctt ccatactgta tctttcatat cagattgcca gtgaatgtct 7020
 tgactgtacg taggatttgg ggggtcaaata tgtctatcca ggaaagcggg gtttagggta 7080
 atctcctcag cctgacgtat ggaataccaa gtttctggtc acaggtagc gtttgatacg 7140
 aaacctttct tttcaattca gtagtggtgg tgggtggtgta ttaccctgac ccctcgccga 7200
 agcgattatg caggatacca ctatctaate cttgtctaaa actatgtaca taaaccattg 7260
 ctttcagcga atttagagcc tcgtcgcggc ctgtggtggc caatgcctgg tgttccgttc 7320
 agcggccctc cactcaataa ccccgacta gaagtgggtt gtgcagctat atgggccgga 7380
 tattgtggaa ttgttcgagg ctttgatgtg gtcgaccgg ccctcctgcc gatcggtttg 7440
 gtcagccagt ttcggagtga gaggggtgagt tggtcagagg gttaagcact gtttgcctac 7500
 tgagcgataa ctaccggggc ccacgagcgt tgcccttctc gctctagtat gtaagcagtg 7560
 cctcccttca atagcgtgcc ctaggtgaga cgggcgagat tgtggggtag taagagcaag 7620
 cgtcatgcga cactgggata caccgaatgc gcccgactgg ctgattgggc gcatttgcaa 7680
 aggtgctgtc catctttcgc ggaagtgata cttcataat ttactgaat gccggatatt 7740
 tgttttaatt ggttatctga acaaatgggg agcagacgct tatggcatgc ggcgccgagg 7800
 gccttcccc ataaaagcaa atatcgcttg gaagtttgaa atgtcacgcc tctgggtgag 7860
 acgtgattga aatcacgaag gcgtctgcga ggtcgacgaa tgacattttg atgttcattg 7920
 acaatcagtg cagatctgtc tctgagggat ggggggctgc agtggttggc cagcataat 7980
 ccttcttcag cctcgagct tgaggggggc ttgcgttcca ctggcaaagt caaatctgac 8040

attggagcca cacggaagcc gaaaatacac gggtcgaaaa attctccttt gctaagtctc 8100
 ctctctttca tctttcaaga ccacgtttga agcccaagca gggttatgag tgtggcggtg 8160
 gattacgagc ccgcgcgttg aaagcttggt gcctcctcga caaaccggtc acctacgtgg 8220
 tcctaatttc tggcctggca caggtaccag cactttgaca tggccccaag gcaaaatcca 8280
 gtcgccttgg gtggccggcc acctgttgag cccggcgata caacgttaga ggatggacgg 8340
 aacagtgcgt tcgactcgct atccattttc gaagacacgc aagaagatgc gttaattgaa 8400
 ctctcgtctg tcgactctaa tgaatgggtg gtaagtttgt gcctgctttc attgtaattc 8460
 aaccatactt cctaacatgg tacaggctcc gcgacgaact ttgcaacact ttcccaggga 8520
 ctcgacaggg tatggattaa ctcatctgt agctaccctt tgtgccaagg agtactgata 8580
 ctatctagac ccagggtcca acgttatcaa caagggtata gtcttcttga cgttgatgac 8640
 atcgtgatgg tgccgtatgt tctccctact gcagaatgga aggcgtgttt acaccgactg 8700
 acccccctga atctgtgtca gtcccaactt tcacgacagt agggaagcca caactagcaa 8760
 tggtgctcca atgcaacgct caacaagccc actcttatcg ctctttacgg aaacgtcaga 8820
 gctggagggc tacggagatg caggtagcag caacctgggt ccgagtacat atccagagcc 8880
 cgaagagcga tgttattgtg ggtctcttcc cgccagtgat atgcgttgct acttttgcta 8940
 cccatgcggc cacgtattct gcgatagatg ctggggaaga tcaccgcccc atgtcaggaa 9000
 gcgcgtacaa ggggggtatac cgcacgagaa gacggatcca aggctcgcca agatcatcga 9060
 acagacgctg gaggtcgaat tggatgagaa gcagcagtct tggatgcac tgaaagatga 9120
 aaactcctct tggtttgaa cgatgaggga tgatgatgat gatatgggtat ttcatgatca 9180
 cggaagattc gccgatctaa tggctgagat gtcagcgcgc aagaggcagg tgcgctatcc 9240
 cggctctggtt tcgttcgtcg gacagaccgg ggccgggaaa agcacggttg ttaagtcct 9300
 gatcgaggta cgagagacct tcaggccatg tctcagcgt gacaatcctt ccaccagct 9360
 gcaatccata tcacatccag agacgcgagt gccggttggt ggatccgcaa caaacagga 9420
 gttgccacc tccggtgatg ttcatctcta ttcagaccg gtatcttggg ctaccgaaac 9480
 gcccatcctg tatgcagatt gtgagggact tgatgggtggc gagagagagc ccctgggggt 9540
 caagatcaga aagggtggaa gacgaatcgc aaaccacgca gttcccgacc actttgagat 9600
 caaggcgcgc cataatacaa caactcgca tctcttatgg gctaccaccg agaagaccaa 9660

gagccgagag tatattgtcc ggaatctgta cccgcgactg ctctacactt tctcggacac 9720
catcgtcttt gtgacaaaa atccccggtg actgcgcgtt ccgtttgata gcggaacctg 9780
ctaatactaa tctcgtccag ggtcgtcgaa aatgttatag accagctgat agactgggag 9840
acagcggctc tggaaaagtc atctaaccag cctgttcttc cacacgcgat cattgtctc 9900
aacgcagcag agaacagtac agaccctcgg ctatgggata tcgatgagtc tactgaccac 9960
ctcatggaat ccatgaacga ggcaataatg agaaaccata atcttcgcgc agtaagtgt 10020
caccgcactc cagcatctgc cagcccgctt ttccatattt actctcatcc gatagcgagt 10080
tagattctgg gtccccagac agagacgtat cacctccatg cgggagcttc ttctttcata 10140
ctactcagac attagagttg tccgtgtgcc agagcgcgga cgtccgaagc tcatcaacca 10200
acagattgaa cgctgtacg aggaagtcaa gatagcttgc cggaagtccc gcgaagcgaa 10260
gcacaagttg cgaatgcttc tcaattcgga tgaacttcaa ccttaccttc aatatgcctt 10320
tgaccacttc tctcgcgacc tcgagatgcc ctttgacttt gtgcaggcat cctttgcaaa 10380
cagccccatc ccgtcagact ttggcggcaa catcttgaaa ctggccatca acatcttgga 10440
tgtgtggagt gattgcctcg atggtcggc tatattcagg gagcttagtt atatcattgc 10500
atcgccaca atgctggatt ctgctcggc caagacctg ggtaaggcgc agctgtggat 10560
cgtaattcgc atatttggtg atcacggcta taggccccgc tgaaagcgtg ttccgcgagt 10620
acctcgacca ttttgatgac gctctcgatg acttttgtga ccgtcactgg ccatgtgaat 10680
atgtaagtgc tcagggccga tgcgtgaacg tccgcagtgg tcaccaagca taaggctatc 10740
agttgagagg cggccgagtc atcgcaattg ccgactacca atctcattt tcaggtgacg 10800
gctttcggac tacattccgc tcaatgattt tcgccaacct cgatgcgctt cttcgcaagt 10860
taggtgatgc tacgttcaat gccgcgaaca gagaactcga agaagcggcc gcgattcaca 10920
gggacctcgt cctgatgcag ttctttcatc acttgggtgg accctcgaaa ttcattagcc 10980
acacggtctg ctacacgtgt ctggtagagc cgccagagca tttgctgcct tgcggtcacg 11040
ttctctgcac gccgtgcata aaggcatttg gcgtgaaccg agtaaagaac gtctacgaga 11100
tggtagcctg cccaatgcat cgtgaccgga cgtaagtttg taccctttcc actgcacaa 11160
gacggcaact ttctcacgac cctgtaacac ttaggaaggg acaattcccc gaattctggt 11220
ctatctcaat caagccccac ggagcaggaa ctgcctcct gagcctcgat ggaggaggag 11280

tccgcggaat tgtcgagctg acaatcctcc agcaaatcga gaaggccctt gggcagggac 11340
 tctatattca agatttcttc gatctaatacg tcggaacaag cacaggcgga ataattgcgc 11400
 tgggcttggg agcccacggc ctgtccgtgc aagacagcat ctacaacttt cggcggctat 11460
 gcaagaaagc cttcacgagg cgtaaaggag ctgggatccc agtgttagag cggattataa 11520
 ctgcctcaaa ccacagtaaa ttcgaaacaa aacctctgga agatgctcta agaagcatct 11580
 atggcgatac aaaactcttc ggtggctcgc gtggcaacat ggaggagccg ttatgcttgc 11640
 gaagactcac gaaagtggct gtcaccacta cgaccacagc ggcctctgtg gttgtgcttg 11700
 ccaactacaa caggcatggc tcgacagaaa atcagtcata taggttctat cgctctgaga 11760
 agcccagagc cgagatgaag gtctgggaat ccgctcgagc gacgtccgcc gccccgagga 11820
 tattcaagcc atttttccat aatgcttccg gtcaagagta ccaggacggc gcaatctacc 11880
 ataataatcc catcgatgtg gcttataggg aacagaagtt gatctggcca gatatggctg 11940
 acagccatcc tgacattgtc ctctctattg gcaccggta caaccgaat tcacagacac 12000
 gggacactca tctctcgagg ccaggcagcc gtgggatgat atcctatgtt atgggactag 12060
 caaagattgc tatggaccat atccacagta gcctggactc agaaaggacg tggcgtgttt 12120
 tcctcgagcg aactaccccc ccgtccagat tcctcgacag gtacgtcagg gcaaacctcg 12180
 ccttggaaca cgaccccccc agtctggaca atgtggaaat gatcgatacc ctgagtgaga 12240
 tgactaggtc tcgctttacc aaggatatct ccttcataca gtccatctca gatcgtctcg 12300
 tggcatcgtc attctacttt gagcaatcct cctcagcgat gggcgcggac aatggagacg 12360
 gtacctttac catcaatggc cacatattgt cgcgttttcc cccgggctca tctcaaatac 12420
 attccctggg tga 12433

<210> 5885
 <211> 8205
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5885

tacatccata gaaccaaagt catcgagggt ctgagggaaa cctcgaggag cgcgggccgg 60
 cataccggac agagtgcagg ctggcaagcc aagtgagaat ataatgggtc gacaaacgcc 120
 caggcggctt gacaaaggaa taaaaatggc ccgccagggt gcattacctg attaattctc 180

accgcgtag agcaatatcc acgtgttgaggacctgat tgcagccac actggcggt 240
 actacaagag agtgatatct tactgatttg aagcgattta cttctggatc gagaaccaca 300
 ctaccgcaca cagctataca gatggcagtg aaattcagca acagcccaca ctcggtgccc 360
 aggacacgtc cagtcgggcc ccgcgacact acaaccatca accagaacaa tggccctcaa 420
 aggagcacat aactggagc agacaatgac ggcaacggct tgaaggctga ccattgtgc 480
 cttcaggtgg atattcccg aagaccatgc cggacctcta tggtcattag gttgcccggtg 540
 aggaggaaga tcatgaagta cgcgaatgtg ggatcataag ccaagggtgt gacggcgcca 600
 agaggcctaa taaactcccc gagggccaaag ggactggct gagatgtcga ttaggactgg 660
 acgtttcttg ctcaaccccc gccagtatga gcgggggtga aggatgagca tatgcttcca 720
 agtagtgag ggacaagagc agcacagcga cccttcccc attatccctg gatacgccaa 780
 tagcctggaa ggtgatacca ggctccgacc atggccaatt tgtccgacca cttgtcgata 840
 agtcacttga ggttcgtcgg tgggggtgag cctggatttt gggagactct gccggctcga 900
 acctagacgt tgggcggtgt tgcctccttg taggggcagt atcgatatga gatagtctaa 960
 ctggcaccag acgatctctg gcatggggtg gcccttgac caccttcagc tgtttattaa 1020
 acaaagctac tattgctcgc cggaaaatct ggttttgcaa cccggcgctc tggtaaatgt 1080
 gcatgctgag agtttggtga gaggcacccc ctgggtccatg actgctcgtc ggtcaggaaa 1140
 ttcgtcttcc tctctccga cccttaaaga ctgctccgtc tcccatcgtc ctgcccgtta 1200
 ggtgtttcag agatacttca caaatcttgc tcaagagatc gatttcgtta acaagtctc 1260
 ttatccattg aacgtgtcag atcgtactcc caagccaacc tggaatcata gctcagtctt 1320
 ttccaataaa cctgccgcta ttggagcggg ggatatacag ctctataatt atgacattgg 1380
 gaacaaactt ggctgttgac cctcacaccg cgaaggcctt ggaagtatta atgagtatac 1440
 tcggacttgc aaatccgacg cccgaaacag tggcctgtgt catggcggtt gcgccccctg 1500
 ttacactata attgggttag tgacaccttg ctatgtacgg tttagttatc tagctctagg 1560
 tgtctcacga tggatattac atatcacgga accatatcca tacagtgcac cgaaacaaaa 1620
 acagcttgct gcaaagccag tgcagaagca aaaaagaaac ggctccatcc gcggatcgaa 1680
 cgcgggacct ctgcatttg tgcttcaggg ttagccctaa gcgagaatca taccactaga 1740
 ccaacggagc agttgttgga aacttgttta acttgatgca aatatgtgga taaaaaaaag 1800

tcttacgcca agaccagtca cgccaattta tcgaggggtc aagcaattta tcgaggggtc 1860
tcttgaccct tctgtcgaag catgggttgc cccatggtct gcacagtctt agtcagcatg 1920
tcattagtat ttagcttagc atccttgtgc atccgcaccc ctgaatacca gactccttca 1980
tgcttcaca atgcagcagc taaagcctta acttttctcaa tggctagaat atcaatgtat 2040
gtttatcaaa aacaaccaat caattgctcc gttgggtctag tggatgatt ctcgcttagg 2100
gctaaccctg aagcacaaat gcgagaggtc ccgcgttcga tccgcggatg gagccgtttc 2160
ttttttatat attccactat tgggtgctgc attatgtctg cctaattgtc ctctaaaagg 2220
tagctaatec taattgcagg atatectagt tgcaggaaac gcttttttaa tagctcaaca 2280
ctgttttttc ctgatcctgc aagcgtcatt ctggaaaccc ttacgtagcc ctagttccag 2340
ttgataccat gtatgcctca caggatgact gtacttcagc acatgagtcg aattcaggac 2400
gacctgactg ccagcccagc agacctgctt cttaaccagt tcctttcttg agactgtact 2460
cagcagccac cttcatacga tttggcaatc gtcgtgcctt gccaaatgct gaagacaaac 2520
cacgatttgt ggtcttatct cacctgttga ctttaccac tctctatat gtacctcagc 2580
tatacgatgc catgtactgt ccttgattaa tccagattcg gctatatctg aatctcagag 2640
cctcgtctac cggatcccaa ctgatcagct gctcattttt tgctacaagc tcgcagactt 2700
gaaaggcctg tcgctgacca tgcattgctgt ttcacacttg aggctttcac cccctcctct 2760
tttcaacttt aactgagtcc ggacgagtca gagagcgcaa ggaaattggg agataagcga 2820
gagtttcagg taggctagtc aaaaatgggt ggtcgttgat attaggggtg aagcattagc 2880
tgagccccct caatgagtaa gacttcactc aaaaatcaat ctggatgtca aggaataccc 2940
agatgcgaga ttttgcgag taacggatgc tgcgaagtct tctctgtcc ggatcatcat 3000
gaccctaaca actctgagaa acctaggaac agtcgaaatc gtagatgcca tagctcctcc 3060
atacacagga aatatgcct ctagaggcgc acaaatgtat caccggatca gggacgcgag 3120
cgcattggca tgtttctcca ttcgccagtt cgcattggcg cgttgctcgg acagcagtag 3180
tgctttcgag gcacctcgag gtcgctccca cagcggattg cacgaatcat acaccggtcc 3240
ccagccgcgc gaatgatttc tgcttcgcgg atactccggc ccagagcacg agtctctgac 3300
aggctttgag ctctgctgcg gggaaagttc cccaagcgcc aaactcgaga gtaaagggat 3360
caacacacac gtccacctgc ctctaagatg gaatatagtt ggagcacacc ccagactcgc 3420

acgacacaag cttcgtctga agattcaggg acatgggtcca agtgaccccg ggtctttcag 3480
 ggaggggtgc actgctttat tcagtaacctg catggtaggg ttgcacggtc caaaatgacg 3540
 ccgtcaccac ctatcgTTTT cccacatgat ggttgcaatg accacagggg agtatgcgag 3600
 ccaagcagct cgatattgca cgggcgcttc agccagcttt gtaatgaacc gagggaccta 3660
 ttaggccatt tagggctgga tagaagacgc gatattcagg gcggttggtc agttgactgt 3720
 aggtggcaat tccgctgggc agagcaagcg cagagtaggc ctggatctcg atccctaaac 3780
 gatactccct agtggtgact aggacaaaa tagtagacaa taagtaacca aaaggcagtc 3840
 ttgcaaaacg caagcttggg ttagaggggtc atttgagag gtcattctcca gctggagcta 3900
 aaatctccta gagcgatccc taagcgccga caaggatatt attagatcgc ggggaattct 3960
 ctgcgaatga gcgtaattct cagctgcaga caagcctttg gcagcccaat cacagcgctg 4020
 gactgactga acgattctgc atctcgatgc gccggcccaa caccctctt gttcgctccc 4080
 gatttagggc aagctgaagg atctggagtt tgcttgctag cgcataccga gcccaatggc 4140
 agagctgggt cgagctcttc cttcatgggc gcttttaacc ggcctctcac tcgacgctgt 4200
 ttatagatca gacccttggg gtctcgggta gagatcctcg tcggttttgt ctgcatggtc 4260
 gtaccgcgca tcttgccagga ggccatcaat accgttctgg gtatataatc aaccagcct 4320
 cctacgcctt ggattctgca gccatttcaa ttcttcagct ttgatttttg tttttgcatt 4380
 ttcttgggtc agctgaaagc cctgggtggc atcggttttc ctctttggtt tgctctccac 4440
 tcaacttttc tcacatatca gaccagctca ctctctactc tcaaccttgc cattataccc 4500
 atctcagtta tccatcattg cccgcatgcg gaatgcgttc agcgctcctt attagctgcc 4560
 tggcggcatg ctctgccgct gcccctatct ttgagaactt ctacaacttc tccgatgata 4620
 tggctgagtt cctgggcccga gtgagcaagg ctatccacag cgaggtaac tcgttgacct 4680
 gcgacacatc ctcaattgct ctccctctt ttgcctctgg cctcccagcc cccaccggcc 4740
 agaagccctt ctacgtcgca ctcgagcgcg ggacacaggt gagcaccag ctcgattcca 4800
 aaccatccg aagcagaacc taaccggcta gtagaactac acctgcgccg actcaacctc 4860
 ctctcgacg cccgaggccg tcggcgccgt cgccgcctt tacaatgcaa catgcctcgc 4920
 cgcgagactc ccaaggcca tcgagctgct ccccgcgatt gcctacaagc tcaccctccc 4980
 agcaaacgaa tacgaccac tccccctc caattttaac ctctcggcc accatttctt 5040

cgagggcaaa gtccccgtct ttgacctga cacaacgccg gaccgacagc tgggaatcgc 5100
 gaaagtgaag aaagaagccg accttccccg tctaactgtc gcggtgcgtg gcgatgacga 5160
 cgaaggcgcc gttgcctggc tttatctttc aagaagcaat ggcaccgtag gccggtactc 5220
 gagcgtttac cgcgttgata ccgcagggtg atcgccgcct gagacttgtg aggggatggc 5280
 gcggagtttc gaggtcgagt atgcggcaaa ctattatata tatgggcaat aggtctttag 5340
 ctacaggcag gatgggtcgg cgggtctgatt tctatgtata tatcgaatta atgaaatgtg 5400
 atgagatgtc aatgtcttga actggactat acccattatc ctactctctc ccttcggttt 5460
 ctggcctgtg tatcgactcg tcgactgctg tttacagtaa attgtgccgt cgggtaaggg 5520
 acttaatatg aaaaagcacg taaattgacc catgtcgagc aatcgagca ggctttcaat 5580
 ctaacggcag acatgacggg atgggttatgt gtaataaat atgcttcagc gaccaccaa 5640
 accgctgcac cgttccttga ggcgatagt gtggtggtaa attttagcca ataaccctaa 5700
 tttgcttgat gctataactt tcccgtttta tctccttcaa tcgtatgggc ggctaccaac 5760
 tctttattct gcgttctggc ctatgggacg atggtcagaa tatatgtaga cgaggtgcga 5820
 caattcccag ttctgattcg tgaacgtgat gttcgcagtc aaactgggag aggtatagag 5880
 aaccacggtc ggtaccatcg gcagtataaa cgccaggcat tgatgaacta gatagtatat 5940
 acttgatta ctcatattta tatctggatg gaaaagtgcc tcatatcttc tgtaaagatg 6000
 aactggcttg tgaagcgagg tccaggaagg ccaagttagg gcttaggaag tcaccacacc 6060
 ccgggtatcc accaaattac atacatcttc cagtgactct acaataacct gagaacagcc 6120
 tctataagta tgcactaact gtcgccgcgt aaggagctcc tcttacaaa aatgatcgaa 6180
 caactgaatt agtaatgaca gatgcaagtt caagtccagc aagtaagcct cagggccctg 6240
 tcatcattct atatcattca ttcctagaaa actacagttc tagcttgag actcaggtct 6300
 acttagccta ggttccatat ttcctacctg cccgtagatt atgcctctcg ctactaagta 6360
 tctcccaaaa gatttgctca aaaaacattg cccagagat gacggtactt aatactcggc 6420
 ggtcgattag ggtccctgta gtagccttca gctcaaccgg gcatcccatc ccctccagag 6480
 ttgtccaat tcacgaacat ccattcgttt ggaagggcgg tactatcgac atcgtagctc 6540
 atactttgat cttgtacaat tgaattccca gaatgccggg cagaataaac tggtcagcta 6600
 gtggtagggg tcagctaggc acgtcatctt ttaaatcggg gccagtgagt ctacgggtca 6660

tggaaactca tattgtccgg tgaagtgtta tctaggtcaa agtcgccggt cgaaccgggc 6720
 atgggtcatga ccgggcgatt attgccggcg tgtttatcga ggccgagggg aagatcgcct 6780
 ccgctcgctc taaccccaat ccttgaaagc acaataccaa cagtgtctgc agctctcttt 6840
 gcttctttcg aagcggatct cctgcgtatc cagactgctc tcgcacgctg gagcgcccggt 6900
 aaagtctcat ctttctctc cattgcttgt tcgtggtgta acaaggagca caagatcatt 6960
 gctgccgtga ggaactggtg attcatgagg gaggtgaatc gccagcgcat cgcgtggagt 7020
 tgacctccag cgcgagtttc ctgcgcgagc acactctgaa gctcgagaga acccattgat 7080
 gcatcaatgc aagcttgctg tgagtgcga aagctgtcct cattgttaga gggggactgc 7140
 ccgcccagga atcgcctgatg tagcatcatt tggcccttgt agatcaaagtg tctgataaat 7200
 agtcgagcaa taataacctg tggcgaatca gtcacactcg ctgctattgg cttccacttc 7260
 agaggtgcag ggatgctagc agcagcatca tgcaggatcc ggtcgacctg cataacctct 7320
 tcgtaggagc agagctttac cctgtgtgtg agatcggcaa cgataccgag ggccttaagt 7380
 acccgtctac gagcgatgat gcccaatgag gttgtaagtt cggtttccgg tcgtgaaggc 7440
 ggcagttctt tgggtgtctt atcgaaatcg gcgtcgttca ggttccgcgg ctcggccgta 7500
 tcacacttcc agtcggagat catccgtggc atccccattt gatttgagat catgatatcg 7560
 ctcataagca cagttgccc aacgcggcgc cgcattcac cacgaaaagg tgagattcca 7620
 ggaaagtggg tgggatcacg atggtaacct atgcgcatcg cgaggttgac ctctatggcg 7680
 aggaggaacc acatatactt gttcgcattc gtgcataatc agaattcggc gtatatatag 7740
 ttgatgaccg tttccagtac atatggacct gactttgtat attcgcccat gatcaagcat 7800
 tgaacgggtt tttagcggta gaggtcaaac aggagagatt gcatttctgc ttccggatta 7860
 tcagcctggg ttgaggccac acatgcaaga catatcatgc tgaacagcag cccgaccac 7920
 attatgggga cagccgaggg gtcggcccag aaggcctcgt actacggcct gttagtatgg 7980
 aatcttcaa gcatatgatg gcgggatagt tcgaactcta gcacttgctt cgcgtaagaa 8040
 aacgggccc tggacagcag ctgattttac cagaacatgt gagccataga tcgtcaatag 8100
 tattggtgga cgcaccagag gagacgagat ccaggtagtt aaagtagcgg gatatgtagc 8160
 gatcaactgc gtatcttgga agcagcgccg cgaggatttc ctctc 8205

<210> 5886
 <211> 11043
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5886

```

aggcagcatg ctaccgtacc cttccacaag cgtctgggcg tctccacgct agttgggtag      60
aatccttctg taagcatggc ccagatgaac tctagttggg aatgctagac aaagggctat      120
ccaggactgg tatttttaggt atagaatgga aagagatttc ccagcatagc atgtactgat      180
aaaatgaagc aaaggagtat cgggaggcct caagaggaga tcgctctctc tacagtcagt      240
ctgcagcgca atacaacctg aggcaagcaa gccacttagc ctgaaataat gtcatcaatc      300
agcatctgga agaagaatcc caattcttgt ctaagaattg aggtcaacct tccagcatta      360
taacttctcc catccccgtt ccttctatcg gtccccctcc cagaacatgc ccagactatg      420
cggcatagcg tctacaaacc cattccgcct atacagtttc cgaccgggct cgtccgcaag      480
gaggttaaca tagggctccc cctcggcctt gttgtccatg atatacccca gcagattctt      540
cagaatggaa tctcccagcc cttgcctctg atgctcaggt aggacggcca tgtcgacgac      600
gtgaaagtac cagctgccgt cgctgatgat gcggcccatt gcgactggga ctggttcagg      660
agagtcaccg gagggatcgg tgtatgtgat gtagcagccg taccagggtcc ctgctgcaac      720
ggcgccgctt gcgcaggggt tttgggggac aagccggatg tcaggcgag gtgcaggtag      780
gaggggacgg gaggcgtgcc caccctgagg atgtagttct gaggaaggga tatggttgga      840
ttggtgactg ccattgtcga cgtcagtggg gttcgatctc gtttcgcagt tatgtgctct      900
gctgacagag gactggttca gtgtaatata taagctgagg gaattcagtc tatctccaaa      960
tcagcaccaa caagcacatg attttttata acgccccac taccaagaca ttagcgggaa     1020
aaggagcttt cattgagtca ccagcaccca aacaagggtt ttgtgtgttc ccatggttct     1080
aatTTtataa cactgaatat gcgcagtatg ggggtgtgcc tacaaaacgg aatttaatac     1140
gcatacgtat taatacaatg ccgtaatgca gtcttacaaa atgactatcg attgcctttc     1200
ccagcgtggg tttgacattc aagttaagag ggaaaagatg ctatataaag cgattagctt     1260
aaacagcctg tcattggaaa aaactataaa acgtgttcag ttccccgagt aataagttct     1320
tgtggatact gaaaatagag agattcattg gaggtctcga gtagaagcgt gacattgccca     1380
tgagagtgcc agggctaatt tctgcaaagt atcctaagga gcatgtctta attacgggga     1440

```

ctttttgtca atagtatggg aagacattat cccctgattc ctgggctgcc ggtaagccgg 1500
 gggatgaagg ttaccaatcc tcctattcag cgctaagggt aacaatatat cactttgtcg 1560
 gcgaccatgc gtgtttctgg acggtcaaca cccagcgctt tctgatgcc tggcagtacg 1620
 tgctgatatg ctcttttata tctctcggtt tgccctgttt aaaggtagag aagaccaaga 1680
 ttcatgaccg cgcctagggg atatgggtga tctgaaccta ttgcttctta tggccagccg 1740
 ctgcttgctg atatatctcc tcctcctcct ccagcttgag aacttttaag gtctgatttt 1800
 cgtctttcaa gacttgagaa ttattatcac ttttgatata cctagaatgc aagggaacaa 1860
 ctatttggcg atatcaatta gatacgctt accggtgtgg acaagattgg gctcagtgtg 1920
 cagagagcca gtgcttgga gatctacttg gggccagctt tgagtagatc ttaggtggaa 1980
 ggattgcggg gactacgata cggtagatcc ttggagcttt cccacattga gttctgaaga 2040
 caggtatggt caacgccggg atggagactt ctaaagatat ccaatgcttt gtatataaac 2100
 acggccagga tgggtgtggg cccctcggtt tgattgctta cgattgaaaa actttcttat 2160
 gactattttc tttccacta aatcttgatt actgcgcaat gatgaccctt gggttgtggg 2220
 acaatgttga gtagaatcta tgccggaaca tattcaatat cacgagcgag caatatagaa 2280
 gaggtggtat caagacaaag ttaccaacaa tccggtgtgt aaatattacc tcaccgaggt 2340
 gattaggata ttgtccttat ttgacttgct cgaaccggtc gtcttcaagc acctgcagga 2400
 agggcggttt cgacgccgcc ggtagcaaaa tatattaatg gagggggagc ccgccaacc 2460
 gtacagtatt catgttctag tttatgattt cagacatgct gaaccggtag aaatggagga 2520
 atcgttataa cttgagaagg ttgggagagt gaaaaaggcg actgggttaa gctagttcat 2580
 caatagggat cttatttaat aacctaataa ccactacaaa tctttgtcgc tacttgaata 2640
 gaggatcgta cagaagtga gaaccatgac ttgagaaac ataggtaaa atctatggcg 2700
 atagtcttag cctagggcat aagtgaagc aggttaagttt gaatgaacct ctcaacgtcg 2760
 tgacacaata gtggcttgcg ctcttgccct tgcccaaact ggttgtcaag gtatgcgttg 2820
 ttattaagag cataaaacac acgaagctga aacctattc gaaacgcgtc agacctagat 2880
 ccgcctgtat acctgctatt taaacgtgaa tgattgctaa taatagcttg tttggattaa 2940
 gctgaaaacc attctggcgt ctgcttgctt caacaacgt ataggatctt ttttagatca 3000
 cgtagcctga tatacgggcc tgggaacacg gtctggctaa taacaacact gtatgatctg 3060

atttagatga tattgccctc ctgataaaga tctcaagat gctgatcctc gtccttaagc 3120
 ctccattcct ccggtgcaca gacataacta gcctcacaac cagtactgtt gtaaatacca 3180
 tttgtacttg tggggcttga ggttgcaaaa atagctgggt gaaggggtcat cgttgaccac 3240
 tcatgcagtc tatcttgaag actcctgtct cccgtggatt aggatatgtc ttttcaataa 3300
 taattccctg ggcaccaatc ctctgtttta tctcctcagc catgactgag tctgtgctta 3360
 attctgcctc ccgcataata tccaagtgat gttgaactcg ggcacttcgt gaagaatgtt 3420
 tgaatagcct gcaacaatgc atgcatgtgc aactgttgta gtcatgctgg gtactctcct 3480
 tgcaagcttc ctataagtct caggcctagt attggcaggt accagatata gtctgtttct 3540
 gtatcacgtt tcatttcagg acaatctcgc tctgatatac ggcattcgca ttgaagccag 3600
 gttgccacat cattgatata atcttagaac tctcgtccg ctatataaac gatagagagc 3660
 agatatatta ttggcccgtg taggacctct gctgaaggat tatgagctat gattggtatt 3720
 caaaaaagct gatgcattca gataagattg gttggaagga ctggagacta tagtcatacg 3780
 gctcaccag ggtctgacgc tgactctaga cagtagttat gactagcagt caggctcgac 3840
 aaattaatag cacagcttca gatcatgaac acgagcaacc ccataaact tgtctaacta 3900
 accacctcca cctccacctc cactgccacc accacctccg ccactaccac cacctcctcc 3960
 actaccacct cctcctccac tccctccgcc acctccgctc ccacagccac tatatcccc 4020
 tccgccataa taacctccac catacccacc attatcacc tgcagcgccc cagcctcggt 4080
 actggcaccg caccagaaac cgcagttatg ctccgcaccg tgggtaggat catcgtcgcc 4140
 agccgtctga tccgtcatct gaaattgtcc atcagcacat tgatagcctt cgccagaagt 4200
 gcgggtgtca gtgatgggat aataataggg gtaatagttg gccctgcgt tatcagaagg 4260
 tctgtgatcg gcccgttgac cctggaatcc tacatacccg tagtgatat cgtgcgttgt 4320
 ggcactcttt cggtaccgcg gtgtgccggc tatctgccag ggaatctcga agaccatcat 4380
 ccgcgcatct cgaagtttct cataggcttt tatctgctcc gcacaattga tcatggcca 4440
 ttctgacagg aagtagtgct ggttggcgcc gagttcatag tagtggtga acggttggtgc 4500
 gcggtggatg ccaccagatt tagcccgaga aagagatggt tgtgtctgca gcagtcggct 4560
 gtcttcgtgc agccaggccg tgacttttcc aagccgtggc gattgcgcca ttgccgttgc 4620
 gacgcggtgg agggcatctg cagcggcgag gatgtactgg cgagaccgga ccagtcacac 4680

tggtgagatt gctgtggttc cggctcgcgg aggggtacagg tactgctccc gctggaggtg	4740
gaggggtgatc aaggaccagc tatcgaacgg aaaggcccat acgtgctttg tgatgctaca	4800
gtcgccgcac ttggtcggac aacgtttcca tttttcagag cagtcccatg ggaaggtgtg	4860
ctgatatcgg cacaatgggc cgccaaagaa cgaacccag tcgtaccagt attctttag	4920
agtgtcgatt atatctgcgt cattgaaacg accaaagtaa tatcgatgca aatatttctc	4980
tgtgaagcca taaggaacat cgtgcttggg gatgatacgc tggtcgggat attcggttgc	5040
cgttggacag aggaagctca tcaggtagag agggcccccg agaaactcgc gtatgggacc	5100
gttaaaaagg ggtccaaata tggccggatc aagcagttag gagcaaaatg tgggatcagt	5160
ggtttcaatg gcagtgtctt ggtcgacgag tctttcaccg attgcctgga ggtagatctt	5220
aagtctggcc ccgagaatat tttttagctt gtccaatatt ggggttgctg ctgctgcaag	5280
cactttgctc tgctcggcac ttgacagacc caaatccaag gcattggcgg cggccaggag	5340
aagctgaaca gtttctgtct ggcctggcc ttctctctct tcagaaagca gaccgaaaa	5400
tggagcgccg accacctgct tcatggcgag cttataacgc ttcggtttgc ttacaggctg	5460
ctcgcaatac catagctgcg ctgctgcttc caggctcata cggagcatgt gctggttgcc	5520
acgaatatga aatcgggtcat ggaagactgg cagctccttc agcgttatga ggacattcgt	5580
cctgccatac cgtcagctct tttttttttt ttcttttgaa agaaacgcaa gaaccccgct	5640
tgaacgactt actctgacat cctctcaata agaattggtc ctactcgtag aaccatatgc	5700
acatagctga acggattctc gacgacacat tctcgagcga agagcgggac atcctcgtct	5760
gcttttgccc ttccagtcga actctgcagg tacaacttcg aggccagttc ttctggggcg	5820
agcggcgagg cctgtccaat tgtcgataac gagtgtctct tcagcttgct cgccactcga	5880
gaaagtccaa atcgtttcct caccggcggc tctaattccg cggttgcaag aagccctttg	5940
tatttgacat tactgattcc ctgtgagatc ttaaactctg gacacgactt cgtggcgcta	6000
atttgatagt gattgccatc tttgaatttg aggtggtacc atcctgtgag ctgttttagta	6060
ttttgctcgc atttgcatga cccttgccgt tccgccagct cgatcgcgtc ctctacgatg	6120
gaatgcttgt actgcttgac gtacgattgg tcgccataat ggtgagccca atagcagcct	6180
tcgcagatgg tggacgtcgc aaattcctcg ttccgacgcy tgaacatgct gccggttatg	6240
gcgttggtggc attgggcaca cttcagcact cgaaattcga caggtgtacc catgctcttc	6300

gccaccactg acggtttcag ccttttagttt gacccccga taaagaggat gctcttacat 6360
tgcggtatac cagggaccct cttgggcctc ctctggctcg gacggtcctc gatcatctgg 6420
tctatatcca agaggcctgg tccaattagg ctaggcggtc acagttcaag ggatctcttc 6480
atacctgctg tctgaagcag taacctgct tgcctttcga tactagatct tttcgggtcg 6540
tctttggaag ttcgttagtg ggtatccctt cgagggaagg tgtagtgtt ggctcacttg 6600
tcagattctc tcgaacttct gctgtcacc tggcgctgct cctctccgca atgatatcgt 6660
acgtcagatc tcgaacagcc ttctcgctat ccagaactct tgtttagacc aggccattat 6720
actccgttcg ctcgctctct acatattggg aagtttcctg ccccgattgt gccgcatgga 6780
gtggaactca cggtaacgaa gcgcaaacgc ggcagcttgc tggttgacct ggtccaggaa 6840
tgtgtcatat ccatggatat cgttctcccc cacattatca atcagcccg tccgctactc 6900
tggggcctga aatattctaa gtgtgcgaat gatattttcg atctcgccgc ggactccttc 6960
ccagtaaagg gtctccaact gctgcactaa atgctccttt gccggaccaa cttgactcca 7020
ttttgtggaa gggtcaggca gaggggctgc ggatctgggtg gtggatttcc accgagtatg 7080
gaacgagttt cgtgacatgg taaagttagg gtgccgatga tttgacactg cccaaggcca 7140
cgggtcggat atttaacact cagcgcacaa ttacgggtgct ctgcccattg actcatgaca 7200
cgagccggtc aacggaacat gtctgccttg cggcttagcc aggacacggg atcgtaactg 7260
ggcgggcctt gtcgcttacc acgccttctt ttggggtagc tctaggcgct aggattgtga 7320
tatttctcgt attccacttg ccgaggatct tgcccggctc ccgagacttt agaattattt 7380
gcaaggcagc tttgtgatcg gcagactctg gcaggctgcc atcaatacaa agcggccgctc 7440
aaatcctgag caggcatttt acaagcgtca aacttcgtcg gcaatcatgg ctctcatatc 7500
tcccagcaac ctgttgtccc ttcaccgcgc aagtggcgac cagactgcgg cgctgaatgc 7560
caacccatcc aggaaatatc gttatgttga tagcaagagc aaggagcagc cgctagatat 7620
cccagatcca gcccttttta aagatctaaa tacagttaac catggatcac caacctttcc 7680
gtcgatcagc gaatgtgcca ttcaccttga aatgcttgaa gcgttccaca ccctccgcca 7740
tgaagtcac cattctcccc agctcgacgt tgccttcaat atctctcccc agccaaccac 7800
caagtaccgg gtgaagaaag acacgcgcag aagtcgaaac cgccaagttg agactgtgtc 7860
catcgcgga tctcgtttcc ccgatagacg aaagcagaaa tggacgcact ttctgcacat 7920

tgcggcgacg cgcttccgtc agtggataca agtagttgac actcacctcg aaatggcaca 7980
 gctcagcagc catgccccac gttacctgct cctgccgcca cttggtgagc ccttcccgcc 8040
 cctgttctag atagccgctg atggtttaga cgtcctgatg atatggcatg cgtttctcct 8100
 gaactgcat gattttaagg agcactgctc ctcttacaac ctcaatgcat gtccagagca 8160
 ttgaattccc atggtcagat attgtatgaa ctctgaacaa acagctttgg aagactgctg 8220
 ctgactcgta gtagcatgcc gccatcgact cgaatagctg gacctatact cttccgaaag 8280
 aacatagtga ctggcttctt acaaccaca atatccacgg agacttgatc acaacattgt 8340
 cagaggaggc aagccaaccc tgtctgattc agaatctgtt gcacgcattc tatgagccaa 8400
 aggccccgtt tcgaatctcc cgacgcttcc cacttagccc agaccctcag ggaggctttt 8460
 cagatgcaag acctgaacac cccgcttgct cagaatgtcg aacgccagtg tgtctttgtt 8520
 gacaagatgc acgcccaccg ctggatttgc agtcacgccg tcaacggaac cctacgtcgg 8580
 gcaatcgacc gttacgacaa ttttctccat ttgttcaggc tctaccctaa taaattcctg 8640
 gtgccaacgc ttgatatcga cctcgtctgg catacgcac c atgcagtgc ggtagatat 8700
 agaacgttcg tcaactgaacg tgttgaaga ttcacaaacc acgaagacaa gatcggtcgt 8760
 gggacgctgg atgacggatt cacaatgca gagcagtggg acagacttca ttacggcaag 8820
 gaataccagg tatgtctatg ttggctgtgt gaggcaatct tgtcagctgt ggaggaattg 8880
 gatgaagatg ttttgatga tcctgatccg cagattgggg gcctgggtgac ggatattgaa 8940
 aggaagggtc attattaccg cgagatggag attgcgagaa ggttggggag ggaattgcca 9000
 gtctggaatc atgattagtt tgtttactta cttttttttt accataatct atggtttttc 9060
 ttataatggg tagatgaatg ggtaacattc ggtgtgcaga taatcattta gcttgagaga 9120
 tattagaacg ttacagacc ctggctcagt ccgtaataga ataatgtact ttcacgaagc 9180
 agcagtattg tgcatgagta ctctgatacc atataaatta tggcacagaa gccatgttat 9240
 agcgttcaat acatagacct cgtaacagc tttgctttca ctagctttcc agtagcatta 9300
 ttagtgcagc caacattcca ataacacca agctgatccc acttaaaagg gatatgttct 9360
 ccagtatcca tgacaactgt aaaccaacgt cgataaacat attccgctct cacgccagtt 9420
 ccttgagctc cgcgctaacc ttatccagaa tctcctggtc gatatctgtc tctccctcgg 9480
 catcagagtc acctcccaag acctcagcat caccctctt cttcttagcc ggagtacctg 9540

ttttcgagcc cacaggagca cggcgtctct tcggtgtatt gctgggtata tccggcgtgt 9600
 ttgcacccgc attaccgtat tcttcagccg cttgcttctt cagcttggtg aactggttct 9660
 gtacagactt tgcgttgcat tctagccaag aaatcactat tagtgtgcta ctgcacgtaa 9720
 atgtacatag aggagcgcga gaaaatggag atcaaaggat tagactagcg cgtaccgggt 9780
 cccatgtgtt cggcgagagc cttgtagtcc agcttgacgc tttgggtctt gatctgttcc 9840
 agaacgccga tgaagagcta ggacgctgtg tgagttcgtg cgcttgctta gaagacgggt 9900
 tctcggatgt agttgaggca cgtgtggaag tggaatggga tgggtgcgcac cttgacgttt 9960
 gcctctgggg tccagctcat cggcattttt gcggaatata gcggaatgga ctcttttgggt 10020
 gagctgggtt tctgcttgaa tttgaggctc tatgcggttt gtggactaga gttgcgggtg 10080
 gatgtgagga tagggttgaa tacttgagat aggtgtacac tttgagagga gacatagaag 10140
 gaagagaaga ggattggaaa gaattctctg ggaagaagtg ttgacgcctt tgtttcgtg 10200
 aagagctgtc agctgtgtta gtcctttgaa gggatgcgtc acttatcctc cctaacatta 10260
 gggctctttt cactattctt cttatgatca attcacttct tttttcaaatt tacctctata 10320
 attatttcac tttcttttaa gaaaacactt gttccatatt actatcataa tatactgttt 10380
 ctcaaaaacg gttcaaatta tagagtctca gctgaaaaac tagagactta gcatgtcaga 10440
 gagtttcac atgactggga ctctcctccc ttctagctct agcaactttt caactccct 10500
 taacagccat accttttatt tgaccataac gctgactgct catttcgacg attggtagtt 10560
 gggacaaaat ccattcactt ggaatttatt tccacgcgt tactggagct gaaggtcgcc 10620
 aaagaaggac ggaacaagga taatggaaaa taagatacta tttcctcagc acgatccttc 10680
 gcttgcatga accgagcata cggtaacta caacttatcg ctgtggctac aggaccctta 10740
 tgggtacgat ataatagccc gtacccctt cgtccctttc ttgggcaacg gcgcaaacia 10800
 gtccgagtga taccgaacat cgtcgaccgt cgtttcgtac aagctcatcc acggcaagac 10860
 ccgcaaggta agcgtgtca aagccagata caagttgcag tacgagagac tggatggatg 10920
 gtaccatatt cgtcagcata tctccggcag agataatacc cggaaggcct cgagaaactc 10980
 acttgatacc caggcactgc ctgctaccct ttgagaatgg ggtcaagcac gagtccatcc 11040
 ggc 11043

<210> 5887
 <211> 8038
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 5887

```

ttcgttctta aaaaaaaaaat attgagaaaa attgaaatac cgaggaaaag aaagatccaa 60
cggttcatat caaacataaa tcaagaacag acaaatgaaa gactacagct ctgaagcaat 120
agcctggata tatggcaact atgcattcct tactttattt ggtgggtgttc aggtagggcc 180
cgtattcgac gccaggggac cacggctttt ggttcttggg ggatccgtgc tagtaatgct 240
gcaggtgata accatgggct tctgtactca gtactgacat ttggtccttt caataggaat 300
cgctggagaa ctaggaacct ccatgatctt caccctgca gtgtctgcga ttgggcacta 360
tttcaatgaa agacgtggag tagcaaccgg cctcgcggct actgggtggct ccgtcggggg 420
cgttgcggtt cctctaatac tggagagcct gttccctaag atcgggtggg cctgggctac 480
gcgagtcatt gctttgatct gctgatatac gctggccggt gcatgtctat tggatgaagtc 540
gcggctgcca aagaagccag cctcgaagga gaacgttctg cccgattttc gtatctttcg 600
cagcctcaag ctcagcttca caacggccgg tatcttcttc attgagtggg gcctttttat 660
cccaatcagc tacatctcct cgtatgcttt ggcccatggc acttctgagt cgctttccta 720
tcagatgcta gcatttctca atgtgggctc cgtcctcgga agagcaatcc ctggcttctt 780
tgcagaccat ctgggcagat tcaacactct tatagtcaca gttgcattgt gtcttgtttg 840
caacgtgtgc atttggcttc ctgccggaga cagcgtggcc ataattgattg tgtattgcgt 900
gatttttggc tttgctagcg gcagcaacat cagccttacc cccgtctgca tttcacaact 960
ctgtaagatc gaaaattacg gaagatatta tgccacttca tacactatag tgagcttcgg 1020
gtaagttaaa atattctcat ttaatttgac atgatactaa tgtctgtctg tcagcacctt 1080
gacaggaatg ccaattgcgg gtgaaatttt ggcccgtgc aacggggact actggggcct 1140
gataacctat acgatctgct gctacgctag cggctttatc tgtgtgacaa ctgcaaaatt 1200
gctccatggt ggctggcgcc gaccttggat aatatactaa atcaaccatc caagctgcat 1260
ctcatgacag ccagcagctt cccaacgata atggctattc cattattcga gtgtcaaata 1320
ttgttcttga gacgcgcggt ccaccttaga aatgccaatc attcttgtca attatcgctt 1380

```

gacgacgtac gctgaggatc taggctcata ttgcctgata ccaccactta gagtaacaaa 1440
tcaacgacaa accttctttg cgtttcgtcg ccgagacaca agccttaggg ttccacggat 1500
ggcctcaata ccaatcattc ctagcctgag aaatgggata agcttaacct ttacacggta 1560
ataagaatgc ctgcaagtca caacgcacg gaaccgcaaa gtgtcttagt atgctcagtc 1620
gaactatcat ccaccgttgg cttttgcagt cagcccacga cacaattccc gccatctatc 1680
gtcattcacc attatagctt cataatcaca ggggtgcatt tcccgcagga tggattcatc 1740
gaaccaccct tccatgacgg cctccatgac agtcttcgca agcgacatgt cgcgtcaaag 1800
tttgaggctc cgtcattcct ctccagatga cataactgat ggccagagtg caatacaaaa 1860
gccaccacc cgggtgtctgt ctacgcctt tcatagctct tcttttgcg tagtttgagt 1920
ctgcatcgct gtctattgag ctagtcactt ttggctacaa cctttcgtcc caaatggcc 1980
ccgttgcta gcaaacttgt cctcttctc tctctggga cgtgctcca tcagacgggg 2040
gctgcccctc aacaagcca gaaatcgaaa tgcgctaact gtggacaaca aagctgtgac 2100
cagcgcggtt actgtgtgta cctcaacgcc tgtgggtgga ggtaccaga cccaactgc 2160
gcctggagga gtactaccga ctccctctgg accgggcgga gccgtagggtg gacatcccag 2220
tcacctggag gaggtagtgg taccccaagc cagcctggag ggagcggaag cagcacacca 2280
agcgtgactg taccagttcc ttccggtacc ggggttgaag gaggaggtgg aactccaagc 2340
cagcccggag gtggaggggg aaccagccct agcgttacc caactgtgcc tggaggggta 2400
gtaccaagtc cgtctggacc aggtggaggt ggcgcaactc caagccaacc tggaggaagc 2460
ggaacaagcc ctagcagtac cccaactgtg cctggagtaa ctgtaccgag tcctctgga 2520
ccaagtgaia caccaggcga aagccagcct cctgctgctg gtggtggtgg tgggtggtgg 2580
cagcctggtg gtctggtca gcctggtggt cctggtcagc ctggtggtcc tggtcagcct 2640
ggtggtggtg gtcccggagg tcccggagg cctggaggtc ctggaggtgc tgggggtcct 2700
ggcgtcctg gcggtcccgg tgaccaacct ggcggaggcc agcctggtca tcctggtggt 2760
cccggaggtc ccggaggtgc tggggggcct ggagggcctg gcggcccggg tggccctgga 2820
gggggccagc caggaggcgg cgggtggagg acatgcttgt gtcagtgcc atgtgacggt 2880
aaaaacaatc atccacaggg acctggaggt tggggtggac agggatgggt tgcaaatggt 2940
tggggtgggg atggatggag cgaacatgga tggaaaggtc agggaccgaa cagtcaagta 3000

caggacggag ccagttggcc tgagcatgga ggcggggggc ctcataaccc cgagaataac 3060
aacaaagtga aacgactcct cgcagcgccct cgaggtcagg gtagtgacgg acattcggga 3120
gacagtacat tcacgcttcc cacagtagca gctccgactc ctactgacta caaatctgga 3180
gcaggtactc cgtctgctca ctcaattcac ggccataacg accctgatta tcgagaatct 3240
gaccacacca atgcagattt taatgattcc gattataaag atccccggtcg aaaacattcc 3300
ggctacaaag attctgacta cgaaagatcc taagcgacga tgaaaatgag gccaaatatc 3360
cgaaatatca ctgctacaag caccctcacg atccccgctg caaagacccc aagtacattg 3420
gctacataga cccgaaggcc cccgactatg ataaatacgc cgatcctggc tatggaggtc 3480
atggaggccc tgggggtcgt ggaggccatg gcggttctgg ttacgacggt caggacggtc 3540
agcgtggata ttccgactat agagatgaag acgacaatgg ccaggaacag ccttcgataa 3600
ctgaggcgcc agtagcaggc atcactggtg gcaacattgg aaccggggcc gcagccggag 3660
ctggaggcgg ctacgggagt aacagagctg ccacagaatc gagcactctg agctctacca 3720
gaaaagccac accaacttcc tcagctagtc cgacctatc agcgggtggca tcgtccacga 3780
gttcattcca actgcctact atcaacacta gggatttgcg ttggtggtaa gatgattcac 3840
tgtctagggt tgattttgga tttgtgtgct tacagagtgt actgtaagcg gagggagggtg 3900
gagaaggaga atgaaaagct gagagatttt acgtcgacga aaacgcgata gggaactaaa 3960
agcgtgagga gcttaagtca gactgtttac tgccttttct ctgtgggatt tggatttgaa 4020
tctgggttgg tgggcatata atatagggtt ttttttagct gcagtgtagc tgtagcaact 4080
actgctagag gcaagttgat gtgaagatcc accagcctag ggtcagtga gtcaatccag 4140
ttttagttgt atccattact atttttcatg tgtataatca aaatcaagga gtggtgattt 4200
gatccatata tctgagctca gggcgacaa tctgccgtga cataggacct gccgagccac 4260
tatgccctac catttatata tatacgata agcttctaata cacaaccac ataattcaat 4320
ttgacagctc tgggcaggat aagtacgcag tcagataggc aggtaggcac caggagagct 4380
ccgacaatac accaaagaaa cgagtacttc cattatagca gtctgcctga acatagtttg 4440
tgaacataat ccaatgctcg ttactccagt ggaatccacc ccgtacgtat atcgatcaaa 4500
atgataatat cgtcaaaatc actacttgtt cctgctctta cgtatcatta ggagctacgt 4560
ctagattgggt ccacgtgtct agagctcggg acagtcgagt acttattaat gtagcacgta 4620

ctcttaaagg ttgggatata cccaaatacc cttcccaagc caagaatatg tatttcgagaa 4680
 cccaaccgga gcaaaggacc agcaggatta gatacaagat acaatagaga tagcactcga 4740
 atgcaatgaa gttgccccta gcgagtgtat aatagggaga ccgatataga gacaaaagat 4800
 agaagcaagt ataagtagag aagcaagaga cagataagga cagctgttca atcagagata 4860
 gttcgcata gtagatatga caatgatatt gtttcaataa tcatatctca aggaaagaaa 4920
 gcaatgcga gactcgggtct catgtctctg actgacttgt ccgtaacagg gttcaaagat 4980
 tcaatcgaac atcgaaattc atgaaaattc ttaagggtccc ttccatgccc ttcgccgagg 5040
 tttcaatgcg cccaaacacc atgtactgtc acccgagact gagtgtagaa ctgccggaat 5100
 caccaaacat aatatactat ggaataggtc aagagagAAC agaagaggcc gcgatatccg 5160
 caggaacacg gcccagtgac cacaatatgc aaaatcgagg aattggaagg gatgtgtgac 5220
 cggtagtgcg agaggaggtc agagttggat aataaagggtg gaagcggagg tatgagatga 5280
 ctggaccgac agaagatcac aatccccgga aagcaaagtt cttacatgag taaagaaaac 5340
 aggatgggta tatagatctg aacgaaagga ctctgaaga tcaagcagag cagaacgcaa 5400
 aaggatgttt ggaagccccg tcttctcatg agctattaga ccgcagtagc gcctgctcgt 5460
 ccagtcagct tgtggagact atagactgta tacatggat catggatatca tggctctacc 5520
 ctatctatgg agagctgctc ggttcgctcg gcaactcgtc tagcgagcgt gcggctgggtg 5580
 gcgctcgacg aggtgatcga tcggccttcc attccccggc gttgcgactt gccgtccgga 5640
 cccgtatgga cgtggtgcat ctcaactcgt ctcgaaatgc gggactcctt gctcttttcc 5700
 agaagagacc cacctagcgt agcgcatttc aggatggttt gcatcatctg attttgcttc 5760
 agtggcttgg ataagtactc gtccatctgt gcttgatac acttctcgcg gtcaccaaac 5820
 atggcgtggg ctgtaagagc gataatgggt gttctgtcga gaccgctgtc tcgttcgtat 5880
 tcgcggatct tgccagtggc ttcgaaacca ccataaccg gcatttggaac gtccatcagt 5940
 atgacatcgt agcggcgcgt tttaacggct tcgacggctt cgaggccgtt gccaaccacn 6000
 cgatacgttg tggttgtgtt tctcaaggat cttcacggcc aatttctgat taacgtcgtt 6060
 gtcctcagct aaaagaatgt cgaaagagcg cgagtggtcg gtagttatgg gtgtggagcg 6120
 cccctcgagc gcaggtaaca tgccattgcc cagatcaatc ggctcgcagt gtgtcgtcat 6180
 gtaggaactg attccgagat ccagggccga cttcaagcta acgcagacca gtggacaaac 6240

cagcacgatg gggacgtatt taaagtcac gtacgtccga agcattcggg ctgtgttcac 6300
agaatccacg attattacat cgtaggcatg accggactcc ttgccggaag gatcttggat 6360
ctctggtggc ggcacatgat cctcattacg cagcaccaac ggttccaagt ccagcttttt 6420
aagcatcttc agaacgttct ccgcttcggg cccgttctct cccttgtcta tgaagaggac 6480
acggtgggtc ttgtaaggca ggatttgtga ggcaatcaca ttcagtgact ggtcggccag 6540
tttcacgacg caggtgaagt ggaatgtact cccgtggcca tattcggagg tgacccaaac 6600
atcaccgccc atcagattga ctaggcgttt cgagatggaa agaccgagac ctgttccacc 6660
aaaccgccgc gtggtcgatc catctgcctg ttggaaggta tcaaaaatca aatcaagttt 6720
gtcttcctca attccgatac cggatctga gacggagaat tcaaaagcat attcattggc 6780
tgcacattgc tcccggtcag atttgcatat cgtgagcttg acttcacat gctcggtgaa 6840
cttgatcgcg ttaccgacca agttaaggat aatctgtcgt agacggaaag ggtcaccaat 6900
aacatagtcg gggactgtgt tgtcgacttg atatgtcaga ctccaggaact tctcgttcgc 6960
tttgactgct aatgtcttca gggcggtgaa cacagtaccg cggactgtga aggggatgct 7020
ttcaatcacc atacgggttcg ctccgatctt tgaaatatcg agtatgtcgt caataattgt 7080
caatagactg tttgcgaggt tgtgcacgac attcaacatc tctcgcgtgt acggtttcag 7140
gtcgtcggtg tccaaagtca gctgggtcat gccaaataa ccattcatag gcgttctgat 7200
ttcgtgactc atgtttgcca gaaactcgga tttggtacgg ttagccaatt cggctgcttc 7260
cctggcgggc gtgtttcgtt gaatactatc ccgcaagttc gaaaccattt tgttgatctt 7320
gcgcttcagc tcgtccatct caccagaagc gttaactgtg atcagcttgg taaaatcccc 7380
gtccgttgca gcatctgtaa tctcgccaaa cgctcgacc tgggacgtaa gattttcggc 7440
catggtgttg acatcctccg tgatctcctt ccacgtcccc gcaattccct ccacgttagc 7500
ttggccgccc attttgccat caacaccgac atcgcgggca accttcttca attcagttgc 7560
aaatttcgcc aaacgatcca ccatgtgatt gatggtgact ttgagggtta gaatctctcc 7620
ctgggcgtga acttcaatct tcttgctcaa atcacccttg gcaatagctt gtgtgacatc 7680
ggatatactt cggacctggg aggtaagggt ctgagccatg gtgttgacat tatcgggtgag 7740
atctttccat tttccttcta cattgtcgac cttggcttgg ccacctagcg taccatcggt 7800
tccgacctcc ctggcgactt tgctaacttc gaaagcaa atgtatttagtc ggtccaccat 7860

gccgttgatc gtgcttttga gatctagtat ttcgccctgg acattggcgg tgacttttctt 7920
gctgagatca ccctttgcga cggcagtagt aacatcagca atctccctga cttgagtagt 7980
caagttgttg gccatgcggt tgacgttttc ggtcagatct ttccatgtgc cttccaca 8038

<210> 5888
<211> 5400
<212> DNA
<213> *Aspergillus nidulans*

<400> 5888

ccgggagata tccaccgaga tgtactgctg cggtttgctc ttttcataga caagaagttc 60
catgggggttc catggggcga taggttgctt taccctcc acaagagcaa agccagcgag 120
taggctagca catcctatag aggcaacttc aatatagtcg tcggggacgg tcacaagctc 180
gtactgcgag agactccacg cattaatcga cagcagtaga ataccaaatc gaacacactg 240
agatatgaag accccccgca tgtttgcaga gcgcgatggc tgagtatcca gatgtgcctg 300
ctgtgggtctc tgccaatcat gctcatcatt atctggatgat ttgatggtaa aagctcgatc 360
aaaaagattc tccagccctg tggaggcatg atcggtcact ggaaagaatt taggaggcgc 420
gaatacagca tctggagagg cggttttgcg cctccaatca gcggacgatt gagcagggct 480
gcgatgaaaa ggattgcgct caacgacctg ttcgattggt tttggtctct ttgaggactg 540
gcttcgcaag ctccatgatg gcggcactgg agcgggagga agagatccgt aaaaaggagt 600
agggccggaa aggagagact gtcgctggtc gcgttgatga acagttgagg ctggttgga 660
actatgctgt atagacggag tccagtccat gtcgtcgacc tcgggcggtg gcgtcggaat 720
ggcgcgctcc tcccagcgc tctgcggagt tgccagcctt tcaataggaa agcgggggtg 780
tatctgctga gagatttcat ggggggtgta gaagggtgt ttcgtgtcag tgggtcaatcg 840
aggagatgcc tccgttttcc gaactggggt tgtcattgga gtagtttcag cccaattgac 900
cagtggtcga gtgttatagc agacgatgcg ccgcgatatg atgacagact aaagtatgtc 960
aacactcttt agtgaaatgg taccaagaag gtggctctac caaaactgta aaaaaaaca 1020
tgaagagatg tagagcaggc ggcagcgtgg catcaaggcc gctagacgag ggatccctaa 1080
ggacggccca aaacgcgcac cgcacgacca tgacaataag ctggacttta tagtattcac 1140
ctagtcccaa gaagcggcgc cctctccctt caacctttaa gcgcagcttc ggggtatacc 1200

acagcgaaaa tatgccggcc acaagagaca agcctgcata ggggcccaag tccacaggac 1260
 catcagatgg tagatgaagc gtttgaggga cttgtctaata gcgtggaacg accacatgcg 1320
 acattgagaa accatccgag tctcgtaatg atttttcgac aggcagtgc tttgtcaagt 1380
 cccaggcaag ttgacctgca atgctagccc agtaacagat agcaccggca aacacaaaaa 1440
 gactcctcca gttccattgt cgcgctttgc gcgctgcttt tcttgcctta ctctgtcca 1500
 tcatcgccg cagatggtct gactttgctt cgtatccggc ctggcggtatg cgcgccttca 1560
 cagcaggttc acattgatcg cacacttgag gataccgctc ttctagattt tttcggaatt 1620
 tgggatattc cttttcgat gcgctataat tcggatcgct tgagggcggg aagtaggatg 1680
 ccaaagcact agtgaaaagg tgttggttcc gcacacactg ggcacaaaac aagtccgagc 1740
 ccgtcaaacc tatgtcaacg gattcaagag aagattttgt tgggccgggt gtaggcggat 1800
 ctggattcgt ttcggtggca ggaggatctg ttatatctcc attctattaa ggagtttat 1860
 tagtagttgt acaggggaga aacacaaaag agtgacgtac ttcgtcgaga tagttgacgg 1920
 cctcacagtg tttacattgc ctttttcgga gagggccttt tccaggctgt gcagagcgac 1980
 gaccgcaata gaagcagctt agtcgcttcg agaagagagg agccatgatg tgtagaacat 2040
 ttgatgggtg atgaagggcg tcgtagcaga gaatacgctc taagaatgca aagaagtctt 2100
 aaccccgaca acaccaggtg cacagaccac acgtgaatca tcaatagacc agatccgcca 2160
 ggaacacgtt cagttcattg caactacacc agcacattct tcatcaattc agtcgcaggc 2220
 gagtggattg atgatttgct acaatttttg acacaattac ttggtctttt tctttcacga 2280
 tgctcgcat cctgcaactt caccttctgc ctccactct gttctaccac cgatcataaa 2340
 agtttcctgg catatcatat tctccgatct cgcacaatta tgtctatttg tctgttatct 2400
 ctcatcgtct ctaccctggc tgcggttggt actgccttgg gctacggtct tatggctttg 2460
 ttacagctgt cgctccccag ggtagccgct ctggcccccc tcttcacgc aagcgtcata 2520
 tcaactggtc tggttcgttc gaatccccgt tgcactgagt tccgtgctaa aaaaaaaaaa 2580
 aaagaagcca ggctaacgta gcaaacgtat agtcctcgg tgtttataca atcttcaga 2640
 aactccggt gcccaaatgg cgtcccaaga gcaccccggt ccatcttctg gtcgtcctcg 2700
 gcagtggcgg ccacacggca gagatgcttt ctttgctacg gcgcgtggac attattacaa 2760
 acaaatgcat ttatcggacc tatgttgctc gctccggtga taacttcagc gctaccaagg 2820

cgctcgagtt cgaatccagt ctccgggggac agccagagtc ctacgcaatc ataacagtgc 2880
 ctctgtccccg ccgcgtccat caatcctact taacggctcc cttcaccact attttgtctt 2940
 tctggtcctg tattctagtt ctatgtgggc gccatccgga ccagcagcga cacaaacgac 3000
 cagcgcaact tacctcgctt tatccggatc tcatcatcac caatggcccc gcgacagccg 3060
 ttagtggtat actagctgct agattcttgc gtcttcttgc ttcttgctg agcttctctat 3120
 ctttagccaa gtcccaccgg caatctatga ccggcaaagg ggcgagcgag gctctgctgc 3180
 cgggagaata ccgacttcgt acagtatttg tggaatcttg ggcgcggtg aagacattga 3240
 gcttgctggg aaagattctt ctgcctttcg ctgaccgatt cttgggtcag tggcctgcgc 3300
 tggaagggaa gcaggcgtgg tgggggatga ggaagactga atacgttgcc ggtcttgttg 3360
 actgatgctc tgcaagacac tttgtgcatg agtcattgcg acattgagca cggatttggg 3420
 tacatacctg cagtagcaca tcgttgagcc tctggactat tacagtatag tccaaacgga 3480
 aagcgccgca gccgaggcct ttcctcatt gcggctgtcg gttgcatact tgggatccat 3540
 cgaacgaatc ttacgcttaa cacacggctg ctccgatgta cacggaagt gcactgtata 3600
 ccaactgtagc tatatgtcca gtgtattggg agacctcttg tgcaaccctg acatgtgccc 3660
 gctgcttact ccaacgtaag cccctcatat accccgcac tgaccagaag cgattaccat 3720
 aaacctcgcc ctcaattcat caacctcatt tttagaacat accatcatca tgccatacgc 3780
 gctacaaaac cgcaatgtcc tcgtctctgc gggctctagg taccctactg accccaaatg 3840
 atcccaacat gtctcttagc agcgcaccca aaggcgacac tcaacaattg ctaatccact 3900
 attttcttat tttttagagg attaggagcg gtcgtcgccc agaagtttgc tgccgaaggc 3960
 tgcaacgtcg caatcaatta cttctctagc agggatgctg cggaaaaagt cgcacagat 4020
 attcgagcgc agtataatgt caagatcata ttgattcagg gtgtacgttc ccattggctt 4080
 gcattgccac agtttgtctg ctgcgcgga ttacggtggt attggcgctt tgattgaagg 4140
 tctgcgtttg tataggatgc gagtattcag agtgaatgtc agagcatggt gcagactacg 4200
 atcgagcaac ttggaggctt ggatattctg gtttcgaatg ctgtgggttc tcgtccttgg 4260
 tcagagcctt gtatatggag gaatgtgcta atgtggggat tgggctggac caaagcggcg 4320
 acgatcaacg acttggatgc catgaatgag gaagactggg ataaggtagg tagcagtcgg 4380
 tgatctaagt catatacatg cacataacaa gggcttacag agctgggtctg ccaatgtgaa 4440

aggtcatcta tggctcttca aggcggcact tcctacgttc agagccaatc cggacggtgg 4500
 tgtcttccta ctcacctcat cagcagcggg aaatatcctt gctctaggaa gtaacagtaa 4560
 tgctcactga cataccgcaa ggccgtttct gcgtcaggaa gtagtctgcc atattctgtc 4620
 acgaaagcgg caggtatggg atatgacctc aggaatatga gtgtatggag atgactaaac 4680
 gaagcacagg cttgcatttg gtcaagtgcc tcgcacagac tcaaggaaac aaagtccgcg 4740
 tcaatgcggg tcttccaggc ctgctcctga ctgaatgggt acgtagtaat gattcaaggg 4800
 aatgtggatt caagtgctaa gtcaagacca gggactgcgg ttccccaagg agaaaattga 4860
 ggcttataaa gctagaactc ctcttaacac cctgggatgg agtcccagcg aagcatgaaa 4920
 agtattgttt tgtgaactaa cgttccatgc tcactacaag cctgaagtgg aggacaccgc 4980
 cgatgcatat atcaacatag caaagaactc atcaatgaca ggacaagcag ttcagatagg 5040
 tatgaggcta tctgagtttc atgtgtgcag aatatctaac ttcacagatt ctggggtttgt 5100
 ggtgaactac taagctgagc tgtgtggcgc aaagatagaa gtgaggtgcc ctttaggatt 5160
 gaagatttga gataatgcat ggtgttggtt ttacatagta tacatttgtt ttgttcttcg 5220
 gccttcaaca gaaaggaag tggaatgcat tgaatgaagc accatgcgat gagaaagtgc 5280
 ggctgcccac cattcgagct gtgagggcag cacggaacgc atccgtattg ggctgcccct 5340
 ttcaccttca tcatatggat tctgaccagc tttcgtcta gagtgaagac atatacccct 5400

<210> 5889
 <211> 2006
 <212> DNA
 <213> Aspergillus nidulans

<400> 5889
 aatctttccc taagaagggc ctccatttcc ttcttgcgct cgcgctcgcg cgcttttttc 60
 tgaccagaga gacgggtctt gattgacagc agtccagact gcataccaac ggcaatatgc 120
 ttgtcttcgc gtgcagcgcc ggaggtgatt gcgcagaggg agaggatggg cgactgggat 180
 ttgaagccag ccacgacatt ccagccagtt gtttcgtgaa tcttaagggtg gccatcgaga 240
 gcaccgctga gtaaccgcgt tccgtccgat gctaaggaga gtgatgtgac tgtcttttga 300
 tggctctgaa tcatatgcag tggctttcca gccacgatat ccaacaccgc gatcttgttg 360
 tccgccgcgg ccagcactgt cgtgcccgtc ggcattgggga gaacagtttc cagcggcgcg 420

cccatcttga aagtcatggc agaccggccc tccatacggg gatcccacaa ccgcactgtt 480
 cgatcgtaac taccagacac taacgagcca gacgaagcca gcgaaccggg catgaacgcc 540
 gcagtacgca catagtcgga gtgacccacg aatgatttga tactgttctc actgggcaga 600
 tcccacaacc gcacagtccg gtcategctt gcggacagaa cacacgtcgg atcgctaggc 660
 gagaacttgg ctacccaaac cggttgcttg tggtccttcc acgtcttcaa aatcgctcgc 720
 gaaccaacat cgaacacctg taatgtaccg gtatcatcac ccgctactag aatcctgcc 780
 tcaggacgaa cgtctgtgcc gcgcgcagtg tcatcgaacc gagtgatcgt tcggagcagt 840
 tttcgtgtgc gaatagagta aatctgcacg cgggcgcccg ttgtgacggg gaagacatcg 900
 gggggctgtg tgagcgaggg gaaggcagag gcggaagagg gcgcagatgg ttgtgtgatg 960
 aagttgacag ggccgtttgc tggatgatga atgaggagag gatttttgaa ggtcttccag 1020
 tggagctgct cggggcttaa ttgtgatgcg ggcagctcgg gcagcttgac ctgcgttaac 1080
 gggaggacgg gggccgccat gctgaagagt cttgactggg ctatgcggat caaccgcgtc 1140
 gctggcttta gttgtctgaa gtgtctggtg aggtttcgag agttgatgga ttttttcgtt 1200
 atcgcggtat cagtacgcta taccgattg ggcttttatt actgtaccaa tgtattcaac 1260
 ttacgcttgc tcgctcatac aatcaacaac gaactcatta tttcctactt gtgaacttct 1320
 cacatthttg tggcttgaat taagcctagt gtacaaggct ataatgagtt agtggtggtc 1380
 gacgtatgaa tagctacatg cattgtcgat gctgaggggt acctagccaa ccccagctt 1440
 tacttttctt catcgccgag tcgtggcaga gtccagccag tttgttgact tgctcatgg 1500
 cctcaatagc taactctttt ttcagagata gatagacagc tgaggcgtgt cattatgaca 1560
 agaattaatc aacaaagtta cgcgataact tagtctaagt gttgtcctac agcacctcca 1620
 acaccatggc gtccagtact ctaaagctgc cgatgagtgc gaatagcatc aatgctactt 1680
 ccattggatc atatgaagga gattgacgtg attcattgtc ttactccttg catccttatt 1740
 gcccttgga gtaacagtca acggatcaca tccgatctcc gggaaggcgt tccaagggtc 1800
 agcatggcta aagataagcc caaattcttc agttgcctcc aataaacccc gtatacttgc 1860
 tcatattcct ccgcagtgca gtaccaagtt ccatcagctg ccatcatgca caccagcgaa 1920
 gagcgtggca aggttgacgt cctgagtccg actgacgatg atttgaagag ggacttcaag 1980
 gcccgccagg tatcgatgta tcaatg 2006

<210> 5890
 <211> 3855
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5890

```

accctatgcg gaggtcgagc tggagactat gaactttagt gttgtaggga ccgtcagtgt   60
aatagttctg agtgtcttct attatcttgt gagggcgcg ccatgtgtaca gggggcctat  120
tattgagact agcccgtgtt aaataggaca cgctccaaag agattcgttg tgccgtataa  180
aggcaccac  gtctgttacc atgtatctat catcgccat  tataaccgct aaaatagcac  240
gcctatctaa acttccacct cccacggctt caccgtctcc cttcaacat acctcccccc  300
aggcggccgc cacataacga ttctgtcaat cggtaacaga gtgttctcgt agtgcttcca  360
ctccttcact tcctcctccg agagctcccg ctccggtaca ggttttactc ggttcacaag  420
gactacgcga aaccogtact gtgcatacaa tggcgccccg aactcggagg catccaacca  480
ggcctctaag ccgcgctcat cggcgatgcg cgtgccccaa tccatgaaca gccggcctag  540
tccttgccga cggtagtggg gaagtgtgaa tgcaatatgg agaactgcca atgcgttggt  600
cagcaaattt caccttttat ccttgagtca tatatgggag cgaggagctc acaggcatgc  660
ggtctttgcg ccatttgctc ccgcggccgc tcaaactgcc tcgcagcaag tgtcgcaaac  720
tcctcccaa  tgccctcggg ataccaatcc gcgacgagct ggccgacttg cggccctgta  780
tgcggattct ccttgtaaaa ataccatttc gctgcgcccg ctaatttgtc accgtccagc  840
gtgtcgacga tcttgacca  tgtcacggtt ggttcagct  ggcggtactc ttcaagttga  900
ctggcgatgc atgtctgaag acttgcttca cggttattgt tcaggattgg gaaaaacagt  960
cgcaggactc cctgaaaggg gttttcgaat gattcccaga gtttagagta gatttcggg 1020
aagtcacct  cggttgcgat gcggagttgg aaacgctgca acatcgctgg cgaaataatt 1080
tagaataagg aattgggtag tctgtagctg gcggtgttct agggagaggc caagcatgca 1140
tctttaatat ggtgttcatt tctccacata tattactaat gacctgcttg tatcatggat 1200
cctacgaact aatctgtccc gaatcacatc accagcccca gtctattttc tcatcgtctg 1260
gaagaaacgg gtaggtagga tgagcgctg atgttcgcgc aagggcggc  cgagataaat 1320
taaactagag gacaggggtc tggatttttt tctgaaaatg gcctagagag attacctttc 1380

```

cgaatcagat gtaacctctt acagggctat aattattcgt tttgcggggc tagcacgtag 1440
ccccctgcta cacggagttt ggaacatgcc tagctctgca tggacattgg ggatgtttta 1500
tggtggtacg actgtggata acctaagccg actcctagta gtggtgtata cctctaaagg 1560
cccaccttgc tggttctgga ataagctaac tcgccgggct gcttcaggcc cctgccgtt 1620
tacctgggca gacacggtga gtaggtgggc ggtgattcag agcaataaga acagttactg 1680
ccctccgtgt agatgtcttc atgtagcgga cccacggcat tgtataatct attcccttat 1740
aagatatctt gcgcaatata cggagaaaaa aaactaatta aattgctacc gagacgataa 1800
aatattgtct gttaaggagc gtatttagat ggatcttctt atctagacgt gccgtacgta 1860
caagaaggaa tcgctaaaga agaaatgaga aagaaggatt gttgttgcaa ggaagtcttg 1920
taggtggctc accgccttca ggacagcgca ggccttggcc gagtcactaa ggtctaaggt 1980
ccttgatatag gcaaaggacc cataacagta cccccctc cctctatgta ggaagtacag 2040
gtcacagggt aggtcatggt gctttagcct ttatatatgc atctctgttt agtgagccgt 2100
cctgaagtct atattgtttc gtacgatcca gccactcacc cagagcttgt acttcctcca 2160
aagctgtggc agcttcccag gttggctgag catagcctga ctatttcact aggtattcca 2220
gccggtgacc tctcccgtat ctctgcgat gttcgtccag gattttctct accatgtatt 2280
cttcctcacc gttcaccatg atgctagggg gctggctatc atcattcttc tgggaaggaa 2340
gtggatctga tgaagccagc cgaagcaggt ccacatggaa gactggatgg atccctgggg 2400
gcgtattcag cggtagacga tgactgccc caggcctat aacctatac ttggcgttct 2460
tccagtcaag tttcttactg ggtcggtcgg tacggatggt cttcagactt agccagacct 2520
tatctcctac ttggtagttt gtggccgggc tcctgtgttt attagcctga ttctctgtat 2580
tctgttggga ataggccatg gaggcttgag cccagtctag ggcttcctta actttctgta 2640
cgatggcttc ccctttctgg ataggactct tggttggttc ttcagctaga tgctctacct 2700
ccttggtagg ggtaaagggt ctgaggttgt acctatggct tagatagaag gggctgacct 2760
ctgttgctgt tgatgtacgg ctattaattg ctagctctgc aagtagaagt agcctgttct 2820
agtccttctg gtcatagcag gtatacatgc agaggtaggt ttctactgta ctgtttattc 2880
tctctgttga tctattagtc tgaggataat aggctgtaga tagccggtgg ttgatccctg 2940
tcagggtaca tatgggggcc catgtattac ttgtaaaactg gcttcccctg tctgaggtaa 3000

tagccttcag gatcccggtg ttgcttataa gtacttgtat gagtgccag gccatactct 3060
cagagtcagt ttctgacatt ccttctagta tcacaccttt ggtaattgg tctgtgataa 3120
ccatgatgtt tgtacaacct ttgctctctg gtaggtctgt aatgaaatct attaaaacct 3180
cctgccaggg atgattaggc acagggaggg gctttaatag ccccttctc tggctctctcc 3240
aagacttggg cctcctacat atatcacagt tccggacgaa tcttctgata tcccgggaca 3300
tgtaggcca gaagtattca cagctaacca gtaaatatgt ttgctcttgg ccaggatgtc 3360
ctgtcaatat agagtcatgt gcagcctgaa ttatacttat acagagctgt ttactatcag 3420
gcacctacct cctcccatgg aagaggatat ggtcttgggc gtccagctgg cattctgaga 3480
ttctgacttt caattatagg tatagaggaa atctccttgc tccatcttcc aggcacagta 3540
ctgctttact atatctttta tctgttttaa gtacctcctt ctatatatca ctttttttgt 3600
acagctccca tgggttctct tcagccagtt agaggggtggc aactaccatc ttccccaagt 3660
atctttctgt aaaaagttgc attgtacaag acttgaccct gtcattctca tcacaggca 3720
tgtcttgggc tctctgtgaa agtatatcag ctctctgatt ggctgaccct ttcttatata 3780
ctagcttgaa gttgaactgg ctgagaaata aggattattg tatgtgtcat tctgtcagct 3840
tcaatggaag aagaa 3855

<210> 5891
<211> 9067
<212> DNA
<213> Aspergillus nidulans
<400> 5891

ggcggtagat gtgcatagtc tcttaggcgg gcattcaaca gctaâaagtt tctagctatg 60
cgacctaatg ttttcttggc tacgccacca gatcggtgag cacatggcga ggcttgattc 120
accggtgacg aggcggagct ctgcagaaca agggaccttc tattccgagt gtgttaagca 180
acgacgtctg ctacgtctgc ttaacactca ctaaccttac tcccaactta tgagaagata 240
ctcttctcaa taccagcctc ataatatatt ctaatttgag cttgtcttcc tctatttcca 300
gtcagattca cggctcatga accatgacga caaatcagag acatcgtagt cagccccag 360
ttccagagcc tgagtatgac aacctggaga tccggtgcac ttggagtggg gagtatgagg 420
aagtatcgaa tattagaatt tctctggagg taaggggtct gtcttcacgt cttgcgtcgc 480

atccccgact gagaatgtct gatttaggtc aaatgtgtcc caaacacgca gcttcagctg 540
ttgagtttac gcagccccgg catatTTTTc gaagaatcct ttctagaacg ccttccacaa 600
accgaagatg atacaggcga cctggacgat acgaaaaccc caciaagccc tctttttggg 660
ttctcccctc ttgtacgca cgcagccgt gatactggac tgttcgttga tggctgctcg 720
ggttgcatat cagaaaccct gccaatgtg gaagaaaagg agcaggcact tgtagcgagt 780
ggaagcatta agaacggctc ggatgccgc agtgcgaag ttgttctggg aaatcctgta 840
ccttcgacgc caactactag atgccgatct gattcagttg cgtctgaggc cgagagcttc 900
actagatcac gaaagagaag cgcagtgac gccgagcttc ctgattctgg gtcagatgtg 960
ggcgacacgc atggagttct caaggatata agtaaccata aaatgcggca aaagagtcgg 1020
ttcgaccag caagtccagc ggatcgacct acggaaagtt tgtcatcgga gcatttagat 1080
gcctcacaca aacaaatgga gagtcccaga agccccaaaa atttgggcgc aaggaaatca 1140
ggaccgacga aaaccacagg cctaactata cccaatgaaa acgccagtcc tagaaacccg 1200
agtagatcca ctgttacaga agcatggctc atggacaagt tagtatcgcc aggaaagtcc 1260
acgccccaaag ggaaacagcc acagaagtcc agtctcattc ctaagccagc atcaactggc 1320
agttcagaga ctttacagtt aacaagtttt gctaccaccg ccgtgggatt ccatctgacg 1380
agtagagggtg cccttgaaga ccaagcaccg gcaactgcta ctcgcaaagc acaatcagtt 1440
aaggaaacca gggtcgctt tcaaataccc aacgacgcgc caactgtcac agaacgttcc 1500
gaaggccaga tatcgtcgcc agctacatct agggagctgg gagccgctat ggaacggact 1560
agccttatat ctacgggcaa gacgagatta tgttacgtac cggggaattc aggagattcc 1620
cgccgccccg gggaacgtac cgacgtcgaa cagccggagc catccgatca gccagaagtg 1680
gaagtggtaa atgggctgct tatectcaga aactctaaac ggttacttcc agcaacatac 1740
aaggtcacta taattgcagc ccgctctata tactatccga acgaacaggg atggagcgat 1800
ctggaaatcc cggaattcc aagaacaaag agtggcagga ttggggttct cctcttcctt 1860
atgcctgctc agcacggact tgagattcgg accacagatg ttaatagagc aactattgtc 1920
gaagactgcc tcattgcgga gttcgttagc actggaaacc tagtgatccc ccttcgccga 1980
tgcagcagag agttctgcgg cgaaattggg gatttactg tggaccagga aatcatttcc 2040
cagagtatag tcggagtcgc aactacacce ggacaaagtg atcagtcagt tatccagatg 2100

agatgccatg cagcgtgctc cgtacgactg tacaaccgct gtttctggag taagaggtgc 2160
 atcattcccc tttgtgtgga tgggtggcca agtgggttct tctattgtga cctgacttcc 2220
 cagcaacggg ttacgaagag tatctgcac accgccagga ggaccaaagt tggagtctcc 2280
 cgtatccgtg tggctctgctc gccaaaagat attgataggc tctatctgag atggacgata 2340
 gagttccccg gtcgcagagc agcgtattgg attccacgaa tatatccagc attgtcgacg 2400
 tctcatgagc tcagtcagca ctgctgctg taaaaattgt tggaagtaat gaacgacctg 2460
 tcatacttgt actccaggat tgacgccacc gaagtgaact gcgacagtag tgaaatcgct 2520
 caaatataca gggactatga gcaggctcct gacgacgtga gcgaggatgc ggaaagtatt 2580
 ctttcgcagc ctgcggcagc ttcaaacgca tcgcggtcta aatggacagc tgagatgcag 2640
 gatggcctga acccgagcca ttttctgaag cgagttctgg tgggagtact ttgccttgct 2700
 gtgttacggt tcgcttatgt taagctcccc gatcgaagtt ccaggacgca cccgtcttca 2760
 atggggcacg tggaagtttt gcagcagaca gagcaattac cgtcgtttca ttctttggag 2820
 acgcagttca aagactatca aaaatggctc ggtaatcttg actcaaaacc caatttgaac 2880
 gcattggatg atgacagaca tgcggccagc cttgcgggtg gtgaggaagc aaagatgcct 2940
 gccagtgatg gaaaacaaaa tgcgcagagc gtggagatgg aggtaaaagt tgaggagcgt 3000
 gcaaagcctt cagtctctct tagggacagg gtcgattatt ggctagggtg gacggggcct 3060
 gttaagagt agttctggcg ttgcgtcaaa atcatgatgg tataactaga acaagtacca 3120
 tgtacgcaat gactatatcc agggccttgt gctcttttcc aggtgtttca agatctcctc 3180
 aaccgcccac tttagcagat ccgccatagg gagggctccc tggccaggag caacagtaac 3240
 gccagcatcc attctcagct tcacgcctg cccgactctg cggatcagct catcctgatc 3300
 ctcagtaggc aaggcctcgg cgccgtcgtc ttcaggaagc aacaaccatg catgatccct 3360
 cacataacgc ggccaaacaa tatcatccac ataaccaggc gggctctgtcc aaaagttctg 3420
 tggcggccga tcatectcga cctccaggtc caccctttct tcctcagctt ctgaggccga 3480
 tgacgacctc tgcggcaact ctgtcgtcgg agcaggccca atagtcacat acccgctcct 3540
 cttctccctc ctttcttga caaggtcata cggcgagcc agaaacattg gcaaatcaat 3600
 ctggtcatga acaccgcca gtccatgttc tttccacct ttttctgttg cgggtggcgc 3660
 atatagcagg aatccttcta ggagtgtat cgtcactttt tcctttccat ctagtcgctc 3720

ttccgcaacc attgacgaag atgacaataa aatcatctga gtccggctag agacgtaccc 3780
 tctcagctca tcaacgagcg catcatccac ccccgacccc ggcgaaactt catttagatc 3840
 ctccctttgag cgcagtcgag gcggaagggtg cccgtgctcg tgcacgtagc ggagtgccga 3900
 cgtcagaaat tttatgtcca aggcacccaa acaatcccag tcttgaattc tggcgccaga 3960
 tttggtggtt gtatagggga ttctggaatc ggattagctt agagtgaact cgcggggtag 4020
 ttcataaatt gcttcatgat tgttctaagg ggtggaaagg agggacatat gcatacttat 4080
 catccgaata gtagaagtcg tcttcatgga ttatgaatgt ggatatcagc ttcgacaatt 4140
 gtgatccttc ttgcgtttgt ggctggttgg agaaaatgcg ctgcaggagg cgggcgaggg 4200
 ttgtttttgcc gctggaggag gggcccgaga gggcgaatat gaaagtcggc atgtttctat 4260
 tgttttttct taaccctgct ctagttgagg tctgtcgtc atttcagat gttcgttgat 4320
 ggtggttga atcgtagaaa tgtgggtcgt aatatcatgt gatcaatgtg ggcttccgga 4380
 ttaggtaagt ttgacactat tccaagttcg aaaaattggg cagctggcgt acggaatcta 4440
 caaaactaac aagccctgaa agtcagctac agctttttga actggggtat ctgatagtat 4500
 tataatatac tgtgctgccg ctaactacaa tacatctacc tagcaccgc tagttcggcg 4560
 tcagtttcaa cagcggagcg aacaacgaag cgttgagcag gagaaatact cctcttcgga 4620
 cggggagact ccatgattat tccattcgga tcacgaaact gcagacgaga tggtgaccgc 4680
 cgtcttttag ccgaagggtga aaggagatct ggctctaaat tcacaaacc aactcccttg 4740
 ctactggttg gggtcacact aacactgcgc ctccgtttta ctggcgtagt gagaagcgta 4800
 tttccctccg ctttcgcttc catcctcggc ctcgctcgca cttcgtcgtt atcaggaatc 4860
 ggtagacgat gtctattgaa gaaaccagtt ggatggcgga ggaaagccag ggacgttgag 4920
 tcctcacagc agggcatggg aatgaaacgc tcatgctgga tgattgagct catggtatag 4980
 tcatccagca gatcattttg aatctcaaca tctgccatgg ctttcggcg ttggagaatc 5040
 ttgtcctcga gcgtgtcgcg gagcacgagg gtctcgacga agacgggacg ggtctgcca 5100
 atgcggtggg cacgcttgat agcttgagac tctatgttcg gttgccaaat tggattgact 5160
 atgtacactc gcgaggcctg tgcaatgtgc agcccgtcg aggcttgccg gaggtccatt 5220
 aggagtacgc ggacctgctc aaattcgca aataggatta agtattcttc gcgagggtc 5280
 ggttttaatg tgttagcgta gatccggaag tccacccca gcagttcgag gccctcgga 5340

atcagtatgc cgagttgtta ttgtcataga agatgatgat ctcttcagcc ttggagtgtt 5400
 cttgaacctg gtctaataagg tacgttagtt cggctgatgc agtcgcatc agtttagttt 5460
 gtgtgagggg cgaataaggg ggcagttcct tgtatatccc attcagaaat gtttgcttgg 5520
 ctttgcgttt aaccgagctc tctggggaag tcttcttagg ggccgagact gatgcatcaa 5580
 atccttcgcg gtgagacaac tccctacgta tcttgatgcc agcgcccgac aggcttcggt 5640
 ctgggtcagg ttcacagagg atgtttcggt acgaattgct gagcgagacg agcttggtgag 5700
 attccgagta aaagaggctc aactggggcc tgtgagggat ctagggccca aaagtttcga 5760
 gcctctgatg gaaagccagt gacaaaaacg ccagttcat gcatgttctt gaatccattc 5820
 caggcaccag agttgagtgc tgtctgagca attttgatgc cttgcgtgag tgttgagatg 5880
 tcgtcttcag tcattgtctc tctgttctgc tcaagatatg tcgtagcgac attgaccgtc 5940
 ccctgtaagt cgaagtcgga gcccgccac cagaaccag cttgtcgag attgctgatg 6000
 acacggctga gatgttttct gttgcgttgg tgaaacatgt aatctatata ttgccgttct 6060
 gacgtgaccg cgttgacagc caggatgaaa ataaacaagt ttagactcag tttatcgtaa 6120
 aaagtcggtt caagatgaac gactttattg tacaatcgtg gcaaagggat ttcattgtta 6180
 ataacatcca gccgatgacg tacaactagg ccttgacgag ttgctcgag ggatggcgcc 6240
 tttcgtcgcc tcccattagg tccaactggc ttgatgtacg tcgcccagtc agcgggatca 6300
 tcgctcctcg agttagacca gggcttgagg ccaggaagt caacaacaat tcgacgtaac 6360
 ttgtcgagat cttttagctc gctatccaac ccctttcggg tcttcttctt accgtgaagc 6420
 acggcggtcg ttgcctcggt caaatcagtg tcgctcgtgt gtgtttcacg agacgccagg 6480
 ctgacttcaa cccatacag cccactggac ggagtaccag aaacaacca cgtctctctg 6540
 acgtggatct gatcgagaag gtgcgacata ttcgtcttgt ggccatggcc ggcgacgtta 6600
 tgcccttcat ctacaataac cctgagccaa tggagctttg ttaacggcga aggtccttg 6660
 cggcggtccc ggccgcctcc attaaagtca tccgcctctt tctcaaactg agttcttgag 6720
 aaaagaacaa tgtcataagc gaataagtcc tcgggcggcg gtgtcaagtc tgcgctgctc 6780
 cgcaacgtga gactcttcag gccctcggtg tgcatcgcaa tctcactcat ccaatgggtca 6840
 accagattgg ggggtactac tattaaagtc cctgaatgaa gatggatgag ggggtattcc 6900
 acaacagtac ggccagtata tctccctgcc ggcgggcgaa agatatatga gccgcgggtt 6960

gcctcgcaag. acttgataca cccatcgtaa atctcccca tttgactcaa gtaattaaaa 7020
 tgtgctttcc aaggcaacga caaccgacca gcagcagccg ccgcatctc aaggagactc 7080
 ctagctgag tcctctccgg atttctcatg gactgatact cgaggggaat ttgcggaaag 7140
 tggccacggg tagctaaaat cacagctagg caaatcagag tcttaccgca gcccatagtc 7200
 tccgcgagta tccctccaca ggccctcgaa tacatcgttc gctctcgcg gattttgccc 7260
 ttttcttgt cgtagtagta tttttggcca gttgggcttg aacaagactg aagtcgcggg 7320
 tccagcattt gatgcggctg tacttctcgc tgaatcatcg tagccgccga acgcctttga 7380
 tagggataga gtggtgtttt aagaccaggg acgccagtat aggtttgccc tttctcaacc 7440
 gcgctctcat ctgaagcggg ggtagagagt aaatcctgca tggctagctt ggcgtatgga 7500
 tcccgcatca tctctacatc gggacttgga cttcgaggg tattaaagat ataccacaga 7560
 gactcatctt cggcaccaac agaagagagg tccactatcc tctggcccga tctctcctgc 7620
 ccagcccaag cgtcggggga ggggtccact ttggacatga cagctttcag ggcttttcta 7680
 agtggggcgc tagagcgtgg tatgaacttc cgccaacat catcgggcaa aacataaaca 7740
 cggacatagc tgatttgggg attgagatga tcttcgtggg tcgtagtccg tacccaattc 7800
 tgtttttcca atgcattgat ttcggcagca gggaatccag gaacaccctt ttctaaaacg 7860
 ccgacggcga taaacgaatc cagattctcg agcagaagcg ccatatctgt tttctgagtc 7920
 tctaccaggg actcgggagt tgctgggttt gtggatgtga aagtcgcatc agcagcgtct 7980
 ccagaaatgt taggcgttga ctccactggg tgtgaggag ccatcataac aacagggctc 8040
 tgtaagatcc cgaaacctat tgtgttatca actagatgca tacaatgagt ctgtattctg 8100
 aaacgtttgc gggctcgcaa gacgtccgag tcattgagag tagtaacaca ccttgagaat 8160
 agttagcttc atctgaataa agagttgaaa gttagaagac acctttccat gtatattttc 8220
 tgggttagta agctaaatgg actctcgggc ccgtattcct gcattatata tgagaatagg 8280
 tggatgaaaa gaggggagtg aggctcgata cctcccatga ggctatctct tatccgagat 8340
 cctgattggg ctaggagtga cattgccttg cacttttccc gatgcggctt agtatgatta 8400
 ttgagtcttt cgtgcacgtg atgctgaatc actttgtaca ctctttaccg agtgcaacta 8460
 cgaggccatg aattgccata cgtctggctt gcattttaat atttacgaac actaatacca 8520
 gttgctcaag gcttccgact gatgatattc aaaaccacag ctccgtagtt ctgtgattat 8580

gactgcagaa aggccgtcag aatgatcccc taaaaattac ctttgccctt ccaccaatg 8640
 ctagtggagt cacacagcag gagataccct agctagctaa aattctctaa gcaacctagc 8700
 atgcagtctc tttaggtgtg atttagggtt agttatctcg acccagtctc cccaccgccg 8760
 caaagaaccc agttagggca tctctatgga cttggcaacg ggctaactgg tattcgaaca 8820
 tgtaaccgcg tcgccagcgc tctgcagccc agaaaccaac tatctatcct gcaccgaaga 8880
 ttttcgtttg cttactgcct cgtgtagttg atatggcggc caggcttcgc cgatagagtc 8940
 gccctcagac tactcgtcac tgtaaccgt ctgttcacg atgaggataa atatatcggt 9000
 ccccataaca atgactatag tggtagtgcg gttacaggag ggcggttgat ggtgattgta 9060
 ggatgat 9067

<210> 5892
 <211> 5326
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5892

ggagataat ttaggtatat tatgaactag gaataccag gaagagagct tataataact 60
 ggtaatttcc ttttagcaaa ttactgctct agggacagag acaggcctct ctttcttaat 120
 agagaaaata gaaatataat acttctctag aaagcagcag cagtatctcc ccatagttac 180
 tctacctagt ataggggaga ttataccatc cctatatata tagtagttag gagttcttct 240
 agatacaaag cttactttta aagcctatat taatttggtc tttagctgca ggaaacaact 300
 tgcccagcac ctaaaaagac ttaataatac ctagcatagc tgcccagtag cctctatata 360
 ggtagtagtt atatagtata ttcttccaac agctctgtac agggcagaag tcttctatac 420
 aggcaaataa taaaaggagg tagttaactg cctgctttct ctcttctgca cagcagccct 480
 ggctatttat cctagtctat aagactacc cttactacagt actcctctgc aaagcagact 540
 tactagacct agaagctcta cttacagta tcctctagag ggtagtagta agatatataa 600
 gccttaatac taaataccta attatctaaa tagctgtaga gactactaca ggcaggccta 660
 aaaccaggct taaaaggatc ttatagctcc tcctcagccc cctgccagag tatattataa 720
 taaagctgcc tctccctcta ttatatatac tcttaacaga caataaaggc tacagccctg 780
 cccctttata gatttttagta tacttagata gcttatagac cagccagggg gcagggtata 840

gctatataat ctattttagc cctattctta tatctaaggg acatggccct gcaggcccca 900
ggacagaagt ctataatata gaaattatag gtactataga aggcctatac atagccctag 960
gataactata tattagctat tctacctagc tagttatcct cctagataac ctagctgcag 1020
cctccctgct agcaagctat agactaacct cttatagaca tagtctgtca gagaccttta 1080
gccaaactagc tgccctagtag atagaaagcc ctttaatcct aactatgcaa tagaagccc 1140
tttaggtcta ctagattcta ggctactctg gaattactgg gaataagctg gcagacaagc 1200
ttgctaagct aggggtcttct atatatagcc ttaatatctc cccctcccca gtatacctac 1260
aacaggaggt aaaacagtgg ctctatacag agatatatac agtatatgct aataagatgc 1320
ctaaaaccta caaagccctg aatattagac cctatacaaa agaaagctgc tcctacaagc 1380
acaagctgcc ctggtaggta cttagctgac ttattactac ctatacaggc cacagagact 1440
ttacagtata ctaccagtac tttaactact cagactacct agagagctgc tcttgtggta 1500
ggaccaagac cctagtatac ttcttcttct gcctatatac cagaaagtac tggaaagata 1560
gatagagata tataagggat agcctgtcaa aaataataga cttgttatgg gtcctttgcc 1620
tatacaagga ccttagacct tagtgactcg gccaaaggcct gcgctgtcct gaaggcggtg 1680
agccacctac aagacttctt tgcaacaaca atccttcttt ctcatcttct ctttagcgat 1740
tccttcttgt acgtacggca cgtctagata ggaagatcca tctaaatacg tcccttaata 1800
ttaggaatcg ctaccaatc tcaataatag tatgaggaga ccttttacta tgacaatgga 1860
agaagaaagc gtgcgattgt tgctacagca gctccaggag ctccgtacag agatgcggac 1920
tcagaaacaa cagctccaag aagagaataa cagcttacag gcggaactac aggccgtacg 1980
gaactcgcaa ctgagaaacc atccaccagt taccactaca gttacatccg caacgcctac 2040
cccctatgaa caaagctatc cccgtccttg tcaccggat gtcgaaccct ttactggaga 2100
agaccctaag gactaccctc ctttctagat aaacctttat atgaagtttg caatcaacgc 2160
cgctgctac cctacagagg aggaacaagt ttactatgcc tacagccgcc tgagaggaaa 2220
agccagccag tgtgtactac catggctctt ggctcgccag aaatctgaga ctcccgctgct 2280
atgggcagaa ttctctgcgg tactagacaa ggcttttggg gaccctgacc aacagagaaa 2340
ggctcttgta cgagtaaata caataaagca agggaaacgt gactttgaag agttcttgaa 2400
tgaatttgac aaagaacttc ttaatactgg agggattaat tgggatgata accagaagaa 2460

ggcccttggtg gacacggcaa ttaatgttga gttgctaaaa gccatgggtg gtattaggca 2520
 ggaggattcg tacaacaact actgtaatca actgcgcgaa atcaaccaca acctccagag 2580
 agtggccagg cttacataaa aaggatcttg cgctgctgtc cccacgcata ttgcttgtag 2640
 aagaccagca ggaggctctg accagaccgg gaccctgat caaatagact gggaagccac 2700
 ccatgctcaa attgcagccc tacaaaagga agtcgcgggc ctctatatga aagggaccag 2760
 gacccaaga aaagctagtc aggcgcctgc agaggagaag caaaagaggt tgtctgaggg 2820
 caaatgccta cgctgcggtg atcctgacca ctttatacaa gagtgccta caaacctac 2880
 caggcgccct aggcaggtgg ccatagttaa ggaagaacaa gaccaaattg atgactacag 2940
 tgagagcgag tcggaaaatg aataacctct gtgcaaagtc gcgtacagag gggttataca 3000
 gctagagaaa tactacttga ttggcaagat ttcaacagct cgcgcatgaa tccccccca 3060
 ttcttggtag aggcactagt caactatacc tataatgctc gtacaatgat agatacaggc 3120
 tgcctgacct atagggtaat cagtgacaag tttgtcaaga tacattaaat accaccata 3180
 cctatctacc cgaaaccttt caagggagtg accaggaata tagaggagat taataagatt 3240
 atacaggttc agctagacat cggggcgcat acagaaaaag gaggctactt ctatgtgata 3300
 cctgataacc tgggctatga cttgatcttg ggactccctt ggctggagca acatgatgga 3360
 aggttagagg ctaagagggg caggctgtac ctctgtacta ctggagtctg tctatggagt 3420
 actataaaga ggcccttacc aaagctgaac atagcacaga tatccaccac aaccatggga 3480
 ggatttatac aaaggaaaag gtgccgtggc caagatattg agatatttgc agtctcatta 3540
 gcagatatac agaaggcact ggccccaag agacatattg acccccgtac aaagctacca 3600
 aggcaatact ggaaatacct aaggctcttc gaacaagaca aagcagaaga actaccactg 3660
 tactagggag ataggattga tcacaaaatt gagctcgtac aggaggagag taggaaggat 3720
 cctgaagtcc cctggggccc cctttacaac atgaccaggg aagaactaat agtcctccgg 3780
 aaaacactct ctgaactatt acagaaaggc tttatccgcg tgagccattc cccagctgca 3840
 gcccagtagc tctttgtaca aaaaccagga ggaggactgc ggttctgctg cgactaccgt 3900
 gctctaaatg ccattaccaa gaaggaccgc tatccattgc ccctgatcca tgagacactg 3960
 aaccaaattg gacaagccag atggtttact aagctggatg tgtctgctgc cttccataag 4020
 atccgcatag ccaaaggcca ggaatggatg actgccttcc gtacgagata cgggctcttt 4080

gaatggctag tcaccccttt tgggttggct aatgcaccga gcaccttcta aaaatacatc 4140
 aactggaccc tccgggaata tctagatgaa ttctgctcag cctatatcga cgatgtgctt 4200
 gtctatacca atggggacct cgcgcagcac cggaagcatg tatgaatggt cttgaagaaa 4260
 ctggaagaag caggcctata tttggatatt aagaagtgcg aatttgagtg caaggagaca 4320
 aagtacttgg gctttataat ataggcaggg aaggaattta aatagaccta gagaaggtaa 4380
 aagcaataaa ggaataggaa acccctacta ttataaaagg tgtccaagga ttcctgggct 4440
 ttgctaactt ctactaaagg tttatcccta acttctcagg gatcatatac ctactaaaca 4500
 acttgacaaa gaaaggaata cccttcttat agactaagga gtgccaggat agctttaatc 4560
 tgcttaagaa aaagtttatt actagaccta tcctagcaac cttcaacctt tcctactata 4620
 tagtagtaga gactgactcc tcagggtata atacaggagg agttctttct taatataata 4680
 aaaaagggaa attgtacctatacc tctctaaaag gaattctcca gctgaatata 4740
 actacaagat ctatgacaag gagctactta taattatata ataccttgaa gcctgggatg 4800
 ctgaactgta cttatataga gaattctaag ttattataaa ttataaaagc ctagaatact 4860
 ttttctccct aagaaaatta atagaataat atatataata gtccttattt cttagctagc 4920
 ttgattttta actagtatat agaaaaagat cagctaacta aaaagctaata atatttttat 4980
 aaaaaaatta agttataacct aataataaag ataacaggct taagtcttat ataataataat 5040
 tttttaccaa gaaatatata gaaaatataa aaatcactat ctttttagcta gccagggagc 5100
 tgctatataa gccctataaa aaataaatat ataaaaaaat acttaagtat aataaaaaat 5160
 acatagagta agagattttt tctacaccta taattaaaaa taagaacctt agaatactga 5220
 atagatattt aaaactatat cctcttttat aaaaggaggt agatatttaa aaataaataa 5280
 ttctataata ataaaatacc ctggctagga ataatatat atgcta 5326

<210> 5893
 <211> 7191
 <212> DNA
 <213> Aspergillus nidulans
 <400> 5893

cggtttatct caccggctat aaggacaacg ttccatacta ttcggacagt tcctcttcga 60
 ccacgtcctc ttcgaacagc agcagcactt ctacaactag cggtgattct acaacgacaa 120

acgcgaatgg tgccgttgtg accacctcga gtgctaattgg acaacaggaa atggccacca 180
 gcacggcgctc ggcagacaac gactcaagta agaaggacgg acctaatact gctgccatcg 240
 ctgcgggtgt ggtcattggt gttgtgggtc tggctgctct gatagggtgct ggcttcttcc 300
 tctggcgctt caagaagcgc caccagctg atcagcggat gcgcgaaatg agcaacgttg 360
 aacaattcgg caaaccatg tgcgaagact ccatgtctga ccatcggttt gatggtgact 420
 ttatggcca caggcgccag agcaacggta gcatcgatga tgaccgagat ttctctcgcc 480
 gggctcttga agtcacgaat cctgaccggc actaaccgtt gtgtctacta ccagtatatt 540
 gcacctcatg atattcggtt tgcacctccg gatttacatt cacgaactca acctgtctta 600
 gcggacaata tcgccttctc ggataagcta tcgaatccgc cccatagttt caagctccgc 660
 ccattggtcg tcttccacga gtttaggggtg ccttggaatt cctcgctaga ctcaacgcta 720
 gattgacaga gcaactttac cgcggatcgc ggatgagatt ttggtatgaa ggcgtttggg 780
 ctggttgacc tttttattct aattcaaat atttcgtatt tattctgtta cctgtatgtt 840
 cttgaattga gaaccacatt ttttctcatg tcctttttgg ttctcaatca tgtcgtgcaa 900
 gcatgcagtc tgcacgcctg gctcccaaca gggatgcgtc tcgttcaatt ggcacgcggc 960
 atatagtga tctgtatcctc cgtgtgcatg tcctaagcgt ccccccttc tcttcccacc 1020
 cactcaacta caatcagacg catactaggc acgtccctag tcttcgtcaa caaacattg 1080
 aaagcgtaca cattcgtctt actcatgggtg aagtgtgata gtgaatgaaa cccctccagt 1140
 ctacatatca cgaataatta cacagtccat agtcctcagc taagaaagag ctaatacata 1200
 cgaccatagg gtgtggaaaa cagggttcc cgtccgctca gccgtactta agccacacgc 1260
 cggctgggtta gtagtatggt gggtgaccac atgcgaatcc cagctgttgt atgtttttgt 1320
 caggtttttt tgtattttga ctccattatc aaatgtggat ggtataatga gcccagaatg 1380
 ggttactgct ttaagagggtg accgcaagcg agatgggtgc taatgtaggg aggatattac 1440
 catataaata tttccatatt acctacttat ttgggcgagt aaggggacgaa tatgagtgtc 1500
 atgaccctgc aggcgcgat cccaaccag taaccagta ttgcaagcat cggacaacag 1560
 cgaccctata tcctcacatg aacattaaag gcttgctagg atcacggcta ttctaagcac 1620
 aatgcataga ataagctatg ttgcatgaga taaagtaact agatatgca ctctaacta 1680
 cctaccttat caaattagggc ttcgctccgc aaaagatctc ttataacggc ttttccgtgt 1740

acattagtta taacgcatga atatattcag ctagctgact ggatagcccg gcccgaagaa 1800
 cagtaagagc gagaatcata cttacacggt caggacttga tctgccttgt atgatatttc 1860
 aagtggatct gtggtgcagt tagggctctgg cagaaggccg ctagctactt acataggtga 1920
 taggtacttt ctattgctag ttaccctggt ggtatcccg tagggtcaca tttttccctc 1980
 gaagcccgcc tcgccattaa acgtagtatt gggcttttga caggtatgtg tgaaagctag 2040
 ggggtgtccga tttctttcca ggctacatcc aagactaaga gcctagccag cgaaggtaga 2100
 tatgatttaa cgtctgattc agtcatgctt gaagatttag gtgaacaagt atgtatatac 2160
 gcccagtcta gatgtggctg ccatctgtaa tctaataatag ttattatttt taaagcagtt 2220
 agttgatata taagaaatct gtagaagcaa gcttcaccaa tcagttcctt tcgatgattt 2280
 ttttttatcc tttgataatc agagagctgt cgttggacag gctgttttaa gagaagggag 2340
 ttagggaaac gtcggatgtt gttctcaggg aaagcatgag atatggatgg gtgagaccta 2400
 gttacttggg agacgataaa gcctagtata cacgaataaa gtggacaaaag atcaccccg 2460
 tatccctgca atcgtgggat acgggaaacg gggagctctg caciaagtac aggttcatgc 2520
 atatatcata tcgtagatct taagacagac caaatgggta ggcgaggtga taaataatgc 2580
 aacatattta gccaggggtt aaggcacaca ggtaagggtt cagttgggta taagtggagc 2640
 ggcttcgcat atttcacgtc ctacgtagag aacctcatcc cctatgcgcg tatttactga 2700
 ccttaagagg ccaatgatta cgggcctgac tgatagtagt atgtatgagt ccaaggcatt 2760
 gaatgccttg ctatccactc agagtccagc ttctggaaag gtctttaagc cataattcaa 2820
 tagtggaggt agagtagctc ttcaatgtgt ttaaaccggg tgcaaagtgt gattgagatt 2880
 gtgatgacag cgattaggta ccggttggat tatcaaagtc ggttatggta gagagtctcg 2940
 ggatatggat agtggatgaa cgactcgggg cttggaggat gatgtagagt aggtgcgaag 3000
 ggaaatggct ttaagacggt actcggtagg cttatattgc tatttgtcgg agttgaagac 3060
 aatgaatacg cgaggcaaac gcaaagtagc tttctgtgga gtacatcgcc gccgggagct 3120
 atagtgtga gaagtcagca aatacccggt agacaggagc agattgcacc agtgcaatat 3180
 acaggtggag agcagaatag gtaggtaggt aaggacgaca tacctcagga tcggtctttg 3240
 tactcgaggt caaaagtcca tagaaccgca atgggtcaat ctgcgcatga gaagggcacc 3300
 aacatacctc tcacatatac acagccaacg cccagcttac ctcccatata gcatcaagtg 3360

cataatcgaa aaactatatt gcatgctcgt gtagaccgcc tggaggccta aaaatatgag 3420
aaagcttgct atggcctaga cgtttgtttt catggcacgg ataactagtg tatatgtcgt 3480
atctctcgcc ttcggacggt tatggacgag taaaagaagt ccgctgaggg ctcccggtcg 3540
atggagtctg ttcttggtga gcttgatcat ctgcgaggtc aaaagggttcg ccttctgaaa 3600
gtattgtgtg aaatctcgtc cgcagtattg agccagctaa aggggtaatc attagtagca 3660
ataagccatc ttgggacaaa agaaggacat cgatcaagct gatccagggg ccgcctcatg 3720
ccgtaaatga cgcattgcaga gtacagacaa caataatgtc tctggagtac ggccaaggaa 3780
agacttgccc acaacaacgt gcccttggtga gatgcgactg tgcgggactt aaccaggcca 3840
cactgtaact aaaaaaaga tgaaacgagc ccatagcaga tatggtcttg cccacgccgc 3900
tgacttcacg gaacaaacag tgaggaagta caaacgtgga cgacatcggg ttgtttggag 3960
ctaaacaaa cgacgtactc cttggcaagt ccgatgcgc ttccggattc gatatgctct 4020
acctcctcca agtgcaggat atgatgtctt catgggttga gaatggacct tttccacgag 4080
tggaggtatg ttggtcgatg agaataagca aggccaacag acatacgtca cagcaagtaa 4140
atctgttgat tttgttggtt tactgttggt taagttagat aatcctattg gacggtatat 4200
agatgaattc aagccaggct ctctgcacca taagctgaga ctgatagcgt ggatgccccat 4260
atcttgaagg atcgccctgga tgctactttg gagtaagctc ggtgcagagt aggagcgaag 4320
tctaggcagc aaggatcgcc acccctgtgg gattggtgct tttgacgctg gttaccaacg 4380
agaatgttat ccaagccatt tcatggagat ccttgacaac ggcgggaaat agtcggtggc 4440
aagagcgtcg tgcatttgga gcatccttca tggtcggtgt ataccatgga ggtaaggcgg 4500
ggttaattat tgtaataaaa tgagcaatat ggttaacta ttcgagatgc tcgaggaaaag 4560
taccaactgc agctgcagac ggtggagaat tattggcgaa gaccacgtgt tggattaata 4620
tgctaactgc tatccccgtg accagatggc gatggctcaa tgagcgtgtt atgattagcg 4680
gccttcctga gcaggtaacca tgcatagcta gccgctctat agattgacaa ggggttgaat 4740
ccttcgacat ctgagccagc ggttggttcc gccgacggcg aagaaccggg agtgcggtat 4800
ccacatcatg agcttcgtag gtaatcttat tgaagcaacg acccaacata ttgagcgcat 4860
gcggtgactg aggtccgac agctacggaa agaaatcatg cataccagga ccaacaacat 4920
ggggagtatg tcatagtaaa ggtgctgcgt ttgactgacc gcgatgtcaa tctccgccag 4980

caggatgtcc gggattagt cagcgagaac ttgggacacc ttagtcgcag tcgcagtagt 5040
agcagtagta gaacgctgaa gctcgtagca tgatacatcg ttgagatgac cagaagcagc 5100
cactagcctc caggtctcag gagtaggtta ctcatatttc cgcgcaaagc ggcagaaact 5160
tccgattgca ccatgaagaa ttcagcctga ccgcaacggt ggaggcgctg attcgtttagc 5220
tggaactggg aacggatacg ataaggcgct ggggtttccc aaactctgtg cctttgaccc 5280
acaatgatct ggagctcgaa cagacaagcg agagatgaag gggttaagcg aagttatgtc 5340
ttttgtgacc tacccttcg ggggtgggctc taagtctgcg gttcagggtt ggatccaaag 5400
gggttgctcg aaagtggata agagactacc ggcggcggtg ggacgacccg tcttccaaag 5460
ggcaaagagc taggaacgtt gaggtaacgt agcccggtc gccactttaa acatgaagaa 5520
aaccggagg acgaaaggag aaggaacaag agcacgcgga atgggtttcg ataatatcgt 5580
cttcggttac ggtgtgcaat gcctcctgat ttgtcgaacg acgagactgg ccgctctgca 5640
agttttacgg ggatgtcggc cgctgtcggc gcgatgctgc gaactggcga agcatagttc 5700
aagctaact tattgtcact gaccgggtgc tcgggtcccg catggcccga cctcgattca 5760
ctatcaagac aaatgtcgat ctctgggatt ttcaacttgg tgctccaatc cccgaatcgg 5820
gctttgctgt tgttccgcta tccggttact actggcacag gtcatacgct caagggcacc 5880
ccttaacgaa gtcagttgga tcaccggtct gagctcaaac tgagcttggga cgattaccgc 5940
gttggtgcgc tgacttctag agccgaagca ttttgacttc ggggtgttgg gtataggtct 6000
ggcagtggtt gcttagcgcg gtcagtagtg cggcccagca agaacggcag tggcctttgc 6060
attatcggac aggccactat ccagccttca aatgcaaact tgccatgcag tctaaccgaa 6120
agacagttgc agctcgtcga acggctgacc tccgtcagtg aaggtccagg ctgagggtgg 6180
agagccagcg ggacagctgt gagggccaga agctccaaaa actcaggagt cagggtgagt 6240
gctctgtaat caccacggaa tcggaggcat ctactcgtct aattgtccaa gtgtactcaa 6300
agtatgagaa tggttggttc tgtgtgagcg gaaataattt ccgccaccac caatcaaaac 6360
acagaacggg tgatggaagc aaaggttaata acggggaagg aggttactct gcatgaagta 6420
taatcaaagt gtcgttgaaa ctgttgaaat atggaatccc caggttagag cacgcgatgg 6480
gctgtgcctg acacaggcag cacagccctg aagttggggc tctgggggga aagctcaggc 6540
aaggcagatt cgggtttcgt ttaaagcttg actgcagggc gcagcgcggc atggttctcc 6600

atgtgagccc agacgtgttt cagggttttgc gacccttgca tgccgcaacg agcgagcggc 6660
 tcattctatt attatcgcaa cgtggccgtg agagcttcgg ccagtgggcg gttgctgcaa 6720
 acgaaattca aatgcgtagt tgaggttcct cccgcggtcg taccgagagc aagagggctc 6780
 tgtcctgggtg acaccgtccg atggatagaa ataacttttc tcaactggcg gccaatataa 6840
 ttatcaagac ggctgtcgaa tcgggtcatt agccttagcg ttaagagcac gctccatacg 6900
 gctccatcac agtgttctgg acttgccagt gactccatca aaggctgtat ggtcctgtct 6960
 taacatacag cagctgagca ctattatfff gctgatttcg cggtcgcccg atccagtcta 7020
 cggctagctg cccatatccc tggaacgatc acagaaatta ggaattgctg ctgaacgtgg 7080
 aatgcccgcc aagcctctgg ccacgttgta acctacgttc gaaatgctaa gaatcgcaaa 7140
 taacaagggg ggattacatg attgccaggt ggcattgtgca ttatgtgatg t 7191

<210> 5894
 <211> 9274
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5894

ggatcgtctg acacgcagcc ctgaatcccc tgcaagggtc ggcaacctaa atcctgccac 60
 gagtttgaac cgtgggtcag ggaccaggtc cctgcttcct agccttcca ggatctttga 120
 cctccgttgg atgccaagaa tgaccagcag acatacctag gtatgcggct ctcaacgtcg 180
 cccattattg gccgtcatca cctttctcat cattgacca gttcttgaat ggggtatgaa 240
 tgttagagtg ggaaaaaaaa tttttattcg atgcgcgaat ggtcgtgatc aagcattggc 300
 actggaatat tgcaggcggg ctttactagc cagagaggag gcaggactgc tatagaaaga 360
 ggaggtctac aaaaagaaac cttgtctagc ggaagagaaa attatacgca ggggagtaca 420
 aggtaaaaga gaccgccagc acaaatgat tcaattttta ttcaaccgc tatgagctaa 480
 ccagcccaac ccagcccaaa tgggtatgca aactaaaga tagcgataaa aatagccagt 540
 atccggcaaa ggatggggta tacaagaaga atggcaggca ccctctcaag ccaaggagcg 600
 tatcaacgaa acggaacgaa acggaaagag aaaaaaaaaat agtgcgcttc aaatcaaat 660
 cgacgagcaa acctggacat gccagcatta gagatcgaga cagaaaacag aaatgggggtg 720
 ttatgggtca cgccgtgacc ttgaaggagt ggggtgaagg gataggtgat atgtcgatcc 780

ttacagctta gcctcgtctg aagagccatt cacaaactgt tgaggagcac ccagggtaga 840
 caggatagag ccaacttccc gctccagaga ttgaacctca gtgtgtgggt catacatgcg 900
 actcttgatc cacgcatcaa gagtttcac atccatcggt cggagagtag tctcacgac 960
 aactttggct tcttgagcag cccggataac gttgcgagcc acgacaacgc tgaccttgcg 1020
 aatgcgggtc agatcagggt agaggagacc acgctcaatc tcctccgcgg tgagggcctt 1080
 ggagagagcc tcaccggagg catagatcat gctgtcgggt accttgacgg ccttgacag 1140
 gatttgccc agtccaatac cagggaatac atacatgttg ttaccctggc cggggtagta 1200
 catctttgtc tcacccgccg agttggtgaa agacattgta ggaaggggg agccagaggc 1260
 gaagaggaca cgaccgtcgg tgtttgtcac ggcggtctca aagtcacact cagatttaga 1320
 cgaagggttg gagagagggg agatcatcgg gttggtgttc cactcagcca tcttacgcag 1380
 gatctcgggt gtgaaaacgc caccttgggt ggaagacc atcaggatcg agggcttgac 1440
 gtggtcgacg acttcctcca aggtcttgaa ctgctggccc gcattgtctg tgcgagcaa 1500
 gtagaccttg tgttcggcaa gcttgtcacc gcggtctgct gtcacaagac ctttgggtgtc 1560
 gacgagccag aagcatgacc gagcttcac ctcggtcatg ccctcgcgca tgaagaaagc 1620
 aacaatctgt tcgcaacacc cactccggca cttcccgac cgaagaaaac tgcacgctgg 1680
 tccttgcaag ggacccctga gcgcttcaca gcattgatga caccaccgag gatcacggca 1740
 ccagtaccct ggatgtcatc gttgaagcat gtgtagacat cctgataccg ttcgagcgca 1800
 gggaatggat tcttgaagtc ttcaaaactga atgacgatac tgcaaagaag ttccccgtta 1860
 gcctccgtat tctcgggcaa agttgggtcg atcgaactta ccccgccag cgctccgtca 1920
 gggcgccat cagctcgtcc aagaactccc gtcctcatc gggagtgatc ttatcgcggc 1980
 ggctacctaa gtagagcggg tcttcccgga gagccttggt gcttgtgccg agatctagag 2040
 tcaaaggag agtggcctcg ggtcggatac cagcacatgt ggtgtagaga gccaacttgc 2100
 caatgggaat acccatccg ttgatgcaa ggtcacctag tccgagaatt cgggaaccat 2160
 cggtgatgca tgtgatctca acgttgggt ggggccagtt ggcaatgaca gaggccaagt 2220
 taccgggtc tcccagcta aggtacatac ctagtccgg caagttagct aaacctcggc 2280
 agctcgctt attcggtggc ttgaaactaa cttccggct gctggtagat ctcggaccac 2340
 ctctggcagg cttcgccaac gaccggggt tagatgagg gagtcaattc ctattcgaca 2400

attagcttcc tgatcgacaa tagctatggt gcaatcccga aatctgaccc taagatgadc 2460
 tgtgaccaga cggtaaaaca ggtgcacatt gttcttacgg agagtgtga gatagaggaa 2520
 tttatcgatg ggggtttgct tcaaggccaa ctgggcgaga cctggctctg ttagcatgcc 2580
 gctggacaaa cctccgcgtt atatacatc accgtgtctt ctgggtctcg tagctttctg 2640
 ggcgaggagg agtcaggccg tatgtgcgga gatacttgcg aatataggcc gggttggcgg 2700
 tgtcataatt ttgttacta gaagcagata tgccgtctgt taccagcta gtatcataaa 2760
 tgcaagtat gctagacagc aacatacatt ggcccattgt ggttcacatg gggggtcgca 2820
 tggaccggac gactttgttg tgagggaac cgagccattc tggatttctg agtcacagca 2880
 gcaccactat ggcagcgaga accaaagacg aaggaggaag atgggaagac agagagtggc 2940
 aattgagctg aaggcgacgg tcttatttta tntagcaatc cacgagacac tagcattgaa 3000
 cccctggag aaggaatcca cgcattccg agattgcaa gtcacaatga tgaccctgcg 3060
 agcttcgagg aggtaaccgc aggactatga acgtcgacca gagctggagc tgtgaccaa 3120
 cgatgagtct ggggccagga gtcgggaaga gtcgggaac agaggccag tcaggaggt 3180
 cgggatcgca acggtggata tttcggggg acgatggttg catggcagcg gaccgttttg 3240
 acttctggct ggaacaatgg tagaaagtg ggaattgctg ggaaaacgaa gcttttcagc 3300
 aaatgagcgc tacttggggc cgacgtggag aaaacgggat gtttccgaca gtccttaggc 3360
 agctcatttt gcctgaattg aatgcggaga aagcgaacaa aaagacgagc cgaagtctga 3420
 gtcactggca gtggtgagga ttattggagg aaggaaagt ctgggtgagg tatttcttcg 3480
 cagtcccag actacaatgt agggggcaga ccgctgagca cacgacctgt cactgttgct 3540
 attcaatagt gcatcgccag agcccgtccc aacaataatc gtcacttta cgttgctgcg 3600
 ccccttcaa ttctgtcgt aaacgatccc cagcatcaa aagaaggaca ttactgatct 3660
 gtacttcagg ttttgagca ggataacatc cgaatgtcat cccgatgttt ttctgtgga 3720
 gcatctcaa cccattccc acgctagaga aggaacagga ctaggtctac cgagtagttt 3780
 caagtccca aggggccagc tctcgacagc ttagcctcta agctcttagc ctaccgcgtc 3840
 aactctgca catgagcccc aatccacctg actgctagat tctcagctcc aactcccag 3900
 cgtaagcag cagaaactag cctctagagg aaggattctg gatgagactg gatcgggctg 3960
 ggcggccga ctctggacca cacttttagt tttcgtggct tccgttcaac gaattcttca 4020

acacctttcc cgcagccac acgcgcccg attactgttc acccggtcc aattcgtaat 4080
 attatatgcg caatcgagca tcagcacatc tctccctcgc tgcgggagac aaagtacgct 4140
 ggctgctgtg cgtggaatcc aggatccagc gacagatgag cgggcggaaa atgccgcatt 4200
 ctggagattc ccaagcactt ctcagcatct ggtcgtacaa gggagagctc caactctaga 4260
 ccagagtaag tgacagcacc tctgtcgtct gcgcagtatc gactcaacag ctccgaaacc 4320
 acggcggttg agaagccgac ttactcggtc ccggccgaga ataccggaag tctcataccc 4380
 agcactgctt ggtttctccg caccattaaa gtcgaaacag cgccgtcaaa tgagattgcc 4440
 aatctcggat ccattattgg cgctcacgaa tatataccgg gttgagcatt aataatgttg 4500
 ggcggccagc caacatgttc gggaggcaaa actctgcggc atctctgaca cactagaagc 4560
 cctaccgct gtaaacgcag taacatacac tcatttgggt cagtttgta gctttggcgg 4620
 tataaacctt ggtcttgatt ccgtcgataa taaattgtat actcgggaca tgtatgcaat 4680
 tgatacaact ccttgagcgt agcctgaaag taacctgcac ttttctaccg aagattaacc 4740
 agagaacgat ccacagtccc caatgccacc cgtgctactc ttgaaacccc tagaggcact 4800
 ggacatgatg cccgatgggg acgatcatca tgggtgtcct tcagcctcta ggcttcggaa 4860
 gatctcagct cctcagtgtg ggtcaagatg ctgtgcgac catacctctt atgcaatttc 4920
 ataaagattc taaaaagccc taagatcgct ctaacctcac tctccggtgc acgagtctat 4980
 caagaactaa gccatactcc ttatcgatat acgtatatac tccgtgcgga ctactatggg 5040
 gctgtaccgg gcaccctagg tggatggtac ggcagattgt gaagcttgat gctgctgac 5100
 gcgattgcct ctatccgata cgtaggaggc agtttcgaat ttgattatca aaaataatat 5160
 attcattcag gatatgatgc tgcacttacc aaggagatgc tgactctaga tcaattgggtg 5220
 gccgagatca cctgacaata aagcggcggc cagtgcgca agagtgcgct ggctaactcg 5280
 aggtcaaagc aaggcaacac ttccagactg gaatcctcca gctcgatgaa ccagggttgt 5340
 attcctgtca tgcaatcttc cccattgcat tcttcgtcat catccggctg ggtccgtgca 5400
 tcatctcatc actccatcac ccgcgtcgaa accgtacgca gagtacacat gagcgatctc 5460
 catcctaaca aagcacctcg gtgagcttgc atcctcagtt gtacaccact cctatcacca 5520
 tgtcgcgggc agaaacggaa ccccttctcc ctcgctatga cgacgaaacg agccgtcagc 5580
 gtcggctgca tcagaagatc catacctatc agatgcttcg tgccttttcc gaggggtaca 5640

tgccatcgac cgagcaagca gtcgccaacc tccgctcttt actagcggtc gatattctca 5700
 accctcgtaa tcccgatata ggttcggtgg gccgccagct ggtccgcatg tgccgcctgt 5760
 ggatccagtt gttgatcgag ttcctacaga ctaagaacag cgaggatcaa ttgcaggaat 5820
 tcatctggca tctctccac gccagggcca ctatccacgc caggcagctc acgcaacgag 5880
 cagctgatac gaaagceaaa gcagacacta aagcaggtaa gatagaccat ttccctaagt 5940
 ttacgtatac taatgctgtc atgacagctt atgatagcct tcggactgtc ggaaccttct 6000
 gttaaccaat gccgacttcc gcctgttcgt tgaagacttg accaccgtag gtcgtgaaat 6060
 attctcggat acagcgttct ctctgtccag agcgtcacga aaagccggga agaagctcaa 6120
 accaaagcag gaggaccaac aagctctgtc tggcgccggt gcggatgagg ggcataccgt 6180
 ttcaaagtag gagctacgcy aagaagtaac tcatgtcgca gacgttgcta agaattgact 6240
 tgtccaaacg ggcaaggagg ctaaagagtc tgtcgaggaa cacctgaccg gaaaggagca 6300
 agagactctg ctatacaggc tgaagcagac agtcctcaag ctccgcgagc gcagagacta 6360
 cacggactcg gttgcgatcc ttgcacggtt gttgcagaag tatgcctcgg tctacgtgaa 6420
 tgccgccacg gacgccgtcg caactgccga ggacgagact gagattaacg aagacctcaa 6480
 aaaggcgata cgtaaatttt gggcactgct tcagacgatt ggtgattcca aagaatggca 6540
 agcttttgaa caacggcttc acgacgtgct ccagcacgcc agcggggatc ctgattttga 6600
 gaacttgggtg tcagaaatag gatccgccat gcaggaaatg atgacaaacc cagactcttt 6660
 tgactcggcc caggagaaaa ttggagagct taaggagaaa tccaagcaag ttggcgctga 6720
 gtccagtttg cgaaaggatg tggacgaatt ccttgcccag gccaaacgag ctctgcacac 6780
 catctcccag gatgagtcag ttccaaact gactagcgcg tctcgcaagc tctacaagga 6840
 tgtttcagag ggctatcata accggcggtg aaatctgctg cggatatgct tgagatcttt 6900
 ttgcctcttg ttctccgcaa catccaatat attcctattc ctgcgctgga gatttctgcy 6960
 ccagaggctg accttttgat tgagaacctg attctcgaac ccggtcacac tgtgaactac 7020
 tcgtcgttcc ttccttatcg gatgcatgtt accaccgca atgacatcga cgtcgtcaag 7080
 cggcactcga agaggactac agcaaatttg aggacaatgt tcaccgtctc actttctggg 7140
 atcaacgtga gtgcgtcaga atttggcttt tggctccgta ccataaagc cctcttcttc 7200
 tatctcaagg accaagggtat tgcaagcttc tacctagaca aacgggggtat cgatatctcc 7260

ctagacgtga gataaagggtc gagaccgcct ggagcagatc ttcaccttgc gcggagtacg 7320
 tgtgcgcatc cacaagctcg actacaaagt gcacagcggg agatggagat ttctgatctg 7380
 gctcaccaag ccccttctca agcacatgat ccgcccgggtg ttggagaagc aaattgccga 7440
 gtcaatcgtc caggcgggtc atgcactgaa tagggaactt gtgtttgctc gggagcgtct 7500
 tcgagccgca cgcacgcta gccctcagga tctattcact tttgtccgtg cggtactggc 7560
 ccgcttggcg ccagccccta acccagatat tgacgcccgc gtgggcatcg acgcaccagg 7620
 cagtggagtc ttcaagaacg tctatgctcc tgggagtctt gttaaagtat ggaatgatga 7680
 ggcacgacag gcacatgatg ctgtggagga gggcgaggaa actccaggct tgcacaggac 7740
 ctggcgaaat accatctttg atgttccagt atgacgatgt atatgctagc tgttatgcgt 7800
 tatgatccat ccaccaatgt ttttttttct tcggaagctc tatgaactgc cactaataat 7860
 cgactaatgt gatcaattgc ttgtcacagt caataaatc tggttcagtt gctctgtcct 7920
 aaatgtacac gtgaccatag tgactgtaga tttatcgaa tggatcaaca tctcccggtc 7980
 cggccacctc atccaaagct gaagcgacaa atctcattcg cctaagtaca tcattatctc 8040
 caatcagtca cttaacactg ggacctttct tgagatcttg actgatcttg agaccccagg 8100
 ccaaccttgg atactctcca atttggattg ttttacgaca aacgcaactg gattgagttg 8160
 aaccatcacc gcccgactta cccagctcg cgagtcaagt ccgctgttcg ccagagcttg 8220
 tattccgatt tagcttcact cgacggagga cagcacacaa cccctatcac ttatcactac 8280
 ctttccacga ggtgtcagct gctaattgcg tgaagacaca ggccgtcata atgcgtctta 8340
 tgcgagagct tttcttcaca ttcgctgttg tgctgctgct tgtgcagttg gtgctcgcg 8400
 ccgaggacta ctataaaatc ctgggtttgg ataaggtgct ttcagagaag gacattagac 8460
 gcgcatatcg cacactgagc aagaagttcc atccggataa gaatccgtga gtccgcgcat 8520
 gtctcaggtg gaaaaggaat gctataactg accgagtga gcggcgacga taccgcacgc 8580
 gagaaattcg ttgagatcg cgaggcgtac gaagtcctgt ctacaccatc cacgcgcaaa 8640
 atctacgatc agtatggacg agagggggtt gagcagcacc gacagggcgg gcaggcaggc 8700
 ggccacacac acgaccggtt cgatctattc tcccgttct tcgggggcgg cggacacttt 8760
 ggacatgcgc cgggtcatcg acgcgggccg gatatggagt tccgcattgg actgccgctg 8820
 cgcgatttct aactgggtcg gtcgtttgag ttaaatttg agcggcacga gatttgcgag 8880

acgtgtcagg gaacaggggtc cgcggtatcgc gaggtcataa cgtgtgataa gtgctcggga 8940
 cggggagtgg ttattcagaa acatatgctt gcgcccggga tgttccagca ggtgcagatg 9000
 cagtgtgata agtgtcgcgg gcaggggaag actatcaaga aaccttgtcc tgtctgtcat 9060
 gggcatcgag tcgttcggaa ggatgttgag acatctgtca cgattgagcc gggatggac 9120
 aagggcacgc gccttgtgtt tgagaatgag ggagatgaga gtcccgacta tatcgcggtt 9180
 gatttggctt tgattcttga agagaaagag ccggagctgg gcacggcaga ggaataccga 9240
 acagacggca catttttccg ccggaaggac gaga 9274

<210> 5895
 <211> 6524
 <212> DNA
 <213> Aspergillus nidulans

<400> 5895
 acggttggtt catgatgaag ggacaagaaa agaatggaag tgcgcctcaa aacagggcca 60
 tatgttgaat gccaccgttt ggtcaccaga gggtaggcca cgcccgcgac aagccgaaaa 120
 gttttgggat ggtccaactc catctagcag gggagatgac cagctaaaaa agaatagagc 180
 gcggaatcat caaagcgatt attcaagaca caggaataga gaattatact cagggcacia 240
 attacgagcc ggtagccgga tctctgtgta tgggagcgag ggcgaggtca cccccactca 300
 tttgatgggg tccgctgcgc tcccacagg ctggcaaaga cgcaaggaag aatcgtagct 360
 gcaggttggt taaggaatct agatcgacgt cagggtaatc ctgtaatggt gtaatatatc 420
 ttacaattc aggtgctcat ttttcggtat cgtgcgtgct tccccctgaa acaaccagg 480
 ttgcagacat atcagaacag gaaccccgtc cgcggcgagc acctaattctc aagattgagg 540
 catgatgaat ctctgatttg gtatatctgc caaatctcag aaaaggcgcc ggaaggtgag 600
 ggaaacattc gcagtatgtg caaaggagga attataagaa atttcgtacc ttaggaattc 660
 tgcaaccaca agacttcaaa gtctaaagag atcagatatc agcattgcgt gattcgtttc 720
 cctattttca tagaaaatgc agctattcaa tgcgtgaagt gcagctgtct ctcgctcgca 780
 agaaggcttg tcgcagaagg tagagttgat ctgctgagat tagttaaagg cagtccagcg 840
 caaacaatgg attctgcctc gtagtaatat acccaggta agtgtaaaaa agcaaattaa 900
 tgcgcggagt caagtgtttt gtttgccatt gtgatctctt tctaataggc agtcccatca 960

gtcattgttt agcttggtga gtataaaact ggaacaatca ctgtatcctg cctgaaaagt 1020
 ccgttattaa ctccgtacgc actacgtaga tattgcaaac cttgtttgaa ccagggtata 1080
 cttatctaga acctctgttt ggaactcttg gaaacacggt gtggagtccg atcagcagat 1140
 aaaaccgttg gtgatacccc cgcattagag aatctttgct tgattaattt gacgactcgg 1200
 cattgtttcc ttggtcgtac aatactgctc attggctgag tagtaagctg gagctgcgcg 1260
 gcctcgaaaag aagcaaacat atcatacgtg tcgtgcgaga tatagctgat aacccttctt 1320
 gtcatatagg catggttcat gaggggttaa aaaatacaac acatacgtgc ataccacttt 1380
 tccagcccaa tcaactacaa agaaggaaca tgatccccag gacttgggga aaggaaccta 1440
 ggagcctact atccatctca aatcttttct tcttctcca tgttacctt tctctattga 1500
 ataatggcaa agaagaagga caagagaaag cgtccgtcag agccggaggc gatcaatgaa 1560
 ccgcccattg caacggagta cattgctgag tatcaatgct gagcccgaac cgccaaaggc 1620
 tgaccagta gaggcccac tgtcaaagct gcctggtatt gagtacaacc agcccgcatc 1680
 atcgtaagct caaaggcttc tcgaccgggt ttgatattcc tctaataac tcgagagcag 1740
 cccctatgaa taccatctcg caatcgtcaa aattgggaga aagagctacg gaatacctgc 1800
 ctactacatc cgatgtatac ccagataaa gtgcgaattc gaatggcacc cactaggcag 1860
 cgtctcactc accgacgttg acgaggatat tggtcacaca ttgttctact ttctttacac 1920
 cggacagtac gagacactct attcgaactg cgaccgtgct agggaaatata ggagaagtgt 1980
 gttcgcatac caggcagcta ggaaatacgg gctgcctgtg ctagaggcac tcgccaaaag 2040
 atatattgaa catttcagtg aatttacgcc gcttgagaac atacttggtg cggccgtgga 2100
 cgtgtttacg aagctgcccc acgacgaggt atggttccaa agatatctca ggggttactt 2160
 tgttcagtcc tacagagaga acatgcactt ttttcaccga gacgagttca ccaaatacaac 2220
 aggaatgtgt cctcctcttg acaggattat tctgcaacta actgttgata tcctgtcctc 2280
 tcgtatcgcg gagctggaaa gtaccattga gcaggccaac gaactcaagc ccgagactga 2340
 atttgagtca ctacctgaac ctgcaccgga gcccgagact gatatagcag ctaaatacggc 2400
 gcccgagcct gagtcgagcg caccaacgag agccagcgat tatgacgcag agtcctctgc 2460
 gaattatgtg gagcctgccg acctgggata ctcaagaaga gcggcctcat ttcccggtgc 2520
 tgaagagccc ggcaagcctg aaacatgcga tttgccagaa tgcacagcag agagctcagt 2580

cgaagttgat cgcgcgctg cgacattttc ccctgcgcag ccgcatctcg agacatatgg 2640
 taacggtgac gtttcacctg gggcccggtc tcctgtggaa ctaggccttg tcgcagaaaa 2700
 cgcccaagga aaatacccct cccaggagta ccctgtccca gagcccgctgc cctctgacac 2760
 tagtgatggc ttgtacggca gcacctcgaa gatgaaaaag aaaaaggga agaataagaa 2820
 aaagaaccgt cctatggttc cgctccccc tgtccctata atttgagct aagtctccga 2880
 tcacacatgg ccaaggcatg ccagcagctt ttacgttgac tgacttggcg aattgtagtt 2940
 gtttgtgttc agcttttagta tggatgtcaa gtacgggaaa ttgaaccaat gctgctagtc 3000
 gtatctaaag atatttggtc ttctttggct caatctggca caattatgat gaatcttaca 3060
 gtcaccttg aagacttgag taccctagtt ttgatatgcc agttcttgat gacggtcctt 3120
 cacgtgcacg aggagtccag gaaacgtgga taattgatcc gtcaaactat gccatgctgg 3180
 agtggatgtt tcactcccag acctgtgacc tagaggtacg gtcagcccaa gaggcgcgac 3240
 tgtagataa tctggagtgg ccagcttgag aggctgccgt ggatgtacta tgtctctctg 3300
 aagaaccaa ctaaacgatg ccaagtctc tccttataat tttcctgaag aacaaaggta 3360
 tgaacctgac gagaatgggg acggaaccac atatcattac catggcttcg taagaggta 3420
 aactgagaca aactaatatc atgaaaggca taccataacc ttgctagtag tacttgcata 3480
 caaggctata cacataacga gaaaacttga ttgcccctaat actgaatcta aggctcttct 3540
 taccctctgc ttgtttcatg tcagggaaac tgtccggctc tgagaattgt gctgtcatgt 3600
 ataatgccgt gtttgaacaa gccgctgtga aagccaaact gtatgtacag cccagcttgt 3660
 acatgagaga cttaaaacta ataatgacga tagcccataa caagtaccct gtcttccctc 3720
 gagaagctag aacaagccga ctacaactag gaaaggatg gctcagttct taagatacaa 3780
 agtctgcaag ttacaccact gcctcaaacc ctgcaagcca ttctccgtcc caatgccgct 3840
 ctctttatgt ccaccgaacg gcgccttgag gtcagcttca aaatgagtgt tgacccaaac 3900
 actcccagcc tgcagctttg ctgcaattct cgccgcttgt tctaggtccc tcgaccagac 3960
 cgatgcccc aagaccattt gtgtattgtt tgcgcgggca atgacatcac tctcatcact 4020
 ccaggagaac agaggcataa tagggccgaa ttgtcctcc gtagcaatgt gactgtcctc 4080
 agctggtctg tcaatgatag tgggcttgat aaagtagcca gccttggtgt caaaagcctt 4140
 gccgtccggg tgggtaaggc tgagctgttc ctttgtgagg tcggcaaaga atcccttgac 4200

cttttcatac tgcattgctgt tttgcagtgg acccatgaag acgccttctt gaggtgccagg 4260
 gccgacctcg atagtttttg cgtacgcgac tgcagcgtcg cggaactcat tgtagatgga 4320
 ttcatggacg tagattcgct ttacagccag gcagatctgg ccagagttga agaacccttt 4380
 cgagatgacc tgatgcagtt agtaggtgac gttactttat tggcactcta ggccaggctt 4440
 acccggggtg cgacactttg aacgtcaacg tctccgcaca cgatggcagc gtcctttcct 4500
 cccctactcg ttgtagcac ccaggaaaaa cgtatgtgca agacaactta caattccagg 4560
 gtgactctct tcaaagtcct actggcactc tccatgacct tcttgccagt cgccgacgag 4620
 cctgtaaagc ttattttccc aatcccagga tgcgccgtca accacggccc caagcggcca 4680
 tcaccactca gagcctgcac cacaccgggc ggaagaacc gctgcgccag ctcaacgagc 4740
 ttgagccac aatatggtgt gaatggcgat ggcttgatga tgatcacatt ccagtgatc 4800
 agagcgggcg ccagcttgac aacggtgagt aagtgagga agttccaggg aatgattccc 4860
 gcgccgacac cgattgggat atgtcgacg acgatcttct tctccgact gtcttcaatg 4920
 atttcgtccg tgaggccttc agcaacgtcg gccgaggagc ggatgacctg ggctgactgg 4980
 gcgacttcgt tggcggcgaa ttggagctgt acagttaagc tcttagagct ggaccccagg 5040
 ataaatagaa tggcttacag gcttccccctg ctctgaaca agaagctttg caaagtctgc 5100
 tacatactcc tcaattgcat cagcataggc caacagggcc ttccggcgct catcaaaagg 5160
 aacatcaatc caggttttga aggcctcctg tgcggccaca acagccctgt cgacatcctc 5220
 cttgattgag acggggacgt cagggtttgg ctcccctgtt gcaggattta tgccgtggcg 5280
 tctttcggtg gtcgaggttt tttctccatt gatgatgttt tgaaagtctt caaagataga 5340
 gaaggccatc gtatcgtgtt acagatcagt accgttccta gcggggaaac agagaagagt 5400
 ggaatagaaa agagaagaaa agcaagataa gaagaagcag tcggggttga gaggaggaaa 5460
 gaccagcgag ttgcaccttc tctagtgacc gcggatgtag ggtaaaacta cttcataacg 5520
 atgatgctgg aggaaaattc gacagcttac agttgtcgcc acggccaata atgggcgtcg 5580
 aaccttgaag ccgctctgat aaatcctgga attcacataa agcactgcac tgttgtacat 5640
 atacctcgcc agactcaca gaaccatact cctcaattcc aggcccattt ttacagaatc 5700
 ctctggacag gtaggtcttg gttgtgataa gcaaccgact aagctggata gaatattgtg 5760
 tatatagcac gcttctctaa gtgggcttgt taccatttta tatcattccg cttctcagt 5820

attcaatgaa aatcctccaa ggaccccggt ttaggagcct gcaatatatt gactattgta 5880
caagagggat tgcgtgacga actaggttca atgatcagca aaagcataag tcccctagtc 5940
cacccttgag gtagaccacc ttcaacctca ggagccctga ggattgaact ggagggcaga 6000
cgatgacaga tagggccaag ttctctgtcc agtcgaggtt atccaatcca gagtacggta 6060
gagagacaat agctcgctct tgcattccgac aaaggacctt ggatcaacgg tacgcggacc 6120
gacagctgtt agctgtggcc ggcccagcat actaatcgtt atacacgccg aaaatatgag 6180
tgggagaggg aggagactgg ttatttccct aagtattata gacagcactg gtaactcccc 6240
tggtagtagc cataacctct tatgcgtgga ctcaacggag tttttgaaca ccccgtagac 6300
cggccggatt cacttccatt cttatttccct ttctatcctg gaaatctaga ataccctctg 6360
cagtggtaaa taacttcttt cttttcgcgg aggtaatctg cctcatccag acttctcatg 6420
atcaaaattg tttccttaaa attgcctaatt ttcccttttt ccctttcggg aaccctttat 6480
tttgaagaat tgaatttata accttcgggc tttgaaccaa ccac 6524

<210> 5896
<211> 5605
<212> DNA
<213> Aspergillus nidulans

<400> 5896
gcatgggaat gaattatagt tctgtctatt tttggccatt tccacagccc tatataagcg 60
attccgcgtc tgtggtgtag tgggtgtgata taactttttg acaacggggc tagtcaattt 120
tgtttccgct cttctccagg tcggagaact ctaataatga catctccaat agtcctctcc 180
aacggattat gcgtggtgaa atctagcccc ttctctgagg ggagaacgct agtaccgtcg 240
ctgacacca atatgcggct tgggatgccg gctgtccagg aaagattctt ttccggaaat 300
tttcgataag tgatgacccg aaatgcagct ccaatcttaa tgatgatatt gtacgctacg 360
ttactggcac tgttctcgac cgaaaagaga aaaaaaaca aggccagggt gcgtagacat 420
tggcaccttg catcctacta atagatccgt gcgaaatgct ctgctttgcc ttttagcccc 480
taggtcgacg ctgggggtgc attgatgagc caagagggcg cgaatcccc attggatatg 540
tggtactact tcacgggtgc ttaaagataa ggggcagcaa gtcagtctct atgatgcac 600
tggtactagc ctgtcccctt aggtggccag cgtgccaacc tggcccatct ccctgagcac 660

ctttcgctg ggtagcagca aacttggcat atgtttggg ttatgaaatc aggtagccgc 720
 tattgttttc tattgtttct ttcgattggc ttcacgctg ttttgttttt tacataccaa 780
 tttcattgac gggattctgt tctgccaacc gggcactgaa gaaatataaa aaaggccgtc 840
 tctgactgac ttcagccctt ccaacgatcc gcaccacatg acactcctaa tgcaatcatt 900
 tcaaaccctt gaatattagt caattagtcc cacaagtagc taagattaaa ccaacgcaa 960
 cagcgggtga gatcccgat gcacggctg tcaactagca tacctatgac aagacatcag 1020
 taacttactt tctcctgtta gtaagcgcaa tccatcgacc tagaatagag gaaagcgata 1080
 gttctgaaac aacaggcaag actcagaggg cgtgtaacc agaatgaatg gtctgcatcc 1140
 ttgaacaaa taccggtacc acgtgcgaga atccatgatg taagtaggcc cttttttggg 1200
 agtaatttga gttgaatatg ttttattaga aatgttcttt catcaacaag gagcgccgat 1260
 ggtggagtgg tatcatgtat cattcccaag tactatactg gaaaaatgat gagtcccggg 1320
 ttcgaacccc ggtcggcgca ttttttcttt ttctcccc agctagctag tcttgcgctt 1380
 catctcctgg gaccctgcag tccagtgaat gcacgcccgt ttccttgcat tcttgctaaa 1440
 acagaagccg agacaagatc tagtaacta gtctgaatac cagaaccaa tgacataagt 1500
 attcaattta tttttgtgcc gcaagatgga gtttgtccag taaaacatac gttggaactc 1560
 atatggcctg ggccttcttc tacaagcagt gccacttaac tcacacgact aacatctccc 1620
 cagacaagca gcaccgaaac tgtccaataa atgtactcag cacggacaga tacgtacgga 1680
 ctccacacag ctgatggagg gaggtactg acagatacca ttaggtagaa agtgacgtcc 1740
 acctcatgat tctctagca gagtcttgtc caatgtacgt agtgacaccc attcaagata 1800
 cagggggact gccatgttgt ccagatccga ctaggtgagt gatcggaggc tcccacctcg 1860
 ggaacacctt tgtaacctta ccagcgctg tgcacgcatt tattgatccc aagcctcacc 1920
 aataatgtat aatcagactc ctagtgtga catcgggacc ccagaagacg gcaacatgat 1980
 attaactga atcttccaaa tctccggcat tccagattca gcgggatatc aaacatagag 2040
 gtacggtcac cataccgaag gtcagttatg ggggtggcat cctaagctga ttttaaaaca 2100
 atttctgta tactaccgc aatgctcatt ttttcaatat gaaaaatac tttcgtcaa 2160
 tctcgtatgg tctaacggtc atgatttccg cttgtcacct cataggaaca agcgcgggag 2220
 acctgggttc gactccagt cggggagatt tgcttcttgc gtggcttaag ggtggacacg 2280

ctatcaagtc tttttttcct tgggagggag cgtgccgccg cgtaaagttg gtgggggttcg 2340
acggctcgcc ttctggaacc cactcaccca ctccggcacag gtagtttgtg gtagcccgta 2400
cggctgtcat gtctagtttc agctgccagg gtccatattc cactaagagc gagcctcaca 2460
ctgccggcag gtgcttttagt gctgcactcg cctatgttta ataaacaaga agtgggtggc 2520
ctacacctcg tagtgcacac gcgtgcgccg taatgccgtc atcagttggc gcaaaggcgg 2580
tacagagcta actcggcggg aattctgcta gtgttatatt gacctaahta tagaccacgg 2640
tctattattg ctacagaaag cacagaaagc aaggcttagt gatgcttaac catcttccat 2700
gtacaacacc caatagctaa aaccgtcaaa ccccgctact ctaattatcg cgactgtaaa 2760
cgtccttga tctgtggcaa ttctttaatg catctacca tgttcggctt tgtattgtta 2820
tagcaggcca tcgtttttta tcatcaggaa agcaatctcg aggaggacta catagaagcc 2880
cataacctga gtgcgccacc actccgcag cctactagca tcagcaccat aaatatattc 2940
cacaggaacc gcaaaaggta agatcatata tcttatctgg atatctgcaa gttatccgcc 3000
caatagataa tatgattact cacacagtcc atccagtagc ggccatatct gaatagcgac 3060
gagatcttat cagataagat cctccccctc aggtagtcac gtgagcggtg tgagtcaccc 3120
caccaattat tcttgctatc agcggcagaa tcggtgattc atcttttttt ttcttctca 3180
gccgtctcct tatcagtcgc gcctggactt cgtttctcgg gctgggtcttg ctttaggata 3240
ccgctcagac ccattgaac cgtatccatt gataaacgaa tactctcgga tttccattga 3300
ccgctgcagg ccatacaatc cccgaagcga gccatatcac aaccacacca tggccgacac 3360
aatccctcac aacaccttcg acacgattct cgtgttggac ttcgggtccc aatagtatgt 3420
ctgcttcaag gctgatacag acgaacaaga ctgacaccac gcacagcacc cacctcatca 3480
cccgccgcct tcgcgaaatc aatgtctact ccgaaatgct cccgtgcacc cagaaacttg 3540
ccgacctagg ctggaagcca agggatatcat tctttcaggc ggccataact ccgtctacga 3600
agagggtgca cccacgcgcg acccggcggt cttcgagctt ggcgtcccaa tcctgggtat 3660
ctgctacggc ctccaagagc tcgccaccg cctgcacgcg gataacgtcg ttgccggaac 3720
cgcgagggaa tacggccatg ctgatctgaa ggccaccaag tttggcggtc acgttgacaa 3780
gctcttcgag aatattgagg gcgatatgac cgtttggatg tcgcacgggtg acaagctccg 3840
caacttgccc gagggcttct acaccatcgg tactacgcag aactcggagt acgcggccat 3900

tgcgacacaag tcggatccta tatatggcat tcagtttcac ccagaggtca cacgtgagtc 3960
 ccatgaaagg ctagagtggg ggggattcta atagtcgata gacactcctc aaggtggaca 4020
 gctgctgaag aacttcgctg tgggcatctg cggcgctgag cagaagtga cgatggcgga 4080
 attcattggt caggagattc agcgcattcg ttctctcggt ggccctgatg gccaggtgct 4140
 cggtgctgtc agcggcgggc tgcactcgac cggtgccgag aagctgatga cagaggccat 4200
 tggcgaccga ttccacgccc ttctcgtega caacggctgc atgcgattga acgagtgcga 4260
 gaaggtccag gaggttctcc aggagcagct tggaatcaac ctgacggtcg ttgacgccgg 4320
 tgagcaattc ctgctgggt tgaagggcgt gcacgacccc gaacagaagc gcaagttcat 4380
 cggcggaag ttcatcgacg ttttcgagga tgaggcgcg aagattgagg ccaagagcaa 4440
 cggaaggctc gagtgggtcc tccagggtac cctctatcct ggtacgtcta ctctgattca 4500
 tcaccaact ccttgttctt gctaacaagt tccagacgtg attgaaagta tctctttcaa 4560
 gggccctcc caaactatca agactacca caacgttggc ggcatcgcc agcgcctcat 4620
 gcgcggccac ggctcaagc ttattgagcc cctccgtgaa ctcttcaagg acgaagtccg 4680
 cgagctcggc cgccaactcg gcatctctcc ggagcttgct ggtcgtcacc ctttccctgg 4740
 tacgactta tctaaagtc cactcattat caacaccatc cacaaaacca aactaacaaa 4800
 aaaatacagg cccgggcacg gccatccgtg tcttggcga agttactcg gaaaaagttg 4860
 aaatggctcg ccaggccgac cacattttca tctccatgat cgcgaagcgg gcatctacga 4920
 cgagatcggc caggcttatg cggcactcga tccctcccgc gccgtcggcg tcatgggcga 4980
 caagcgcgtc tacgcgaaca ttatcctgct ccgtgcaatc tccacgaagg acttcatgac 5040
 tgccaccccg taccattct cgtacgagtt cttgtccaag gtgtcgacaa gaatcgtaa 5100
 tgaggttgcg ggcgtttgcc gcgtttgcta cgattacag agtaaaccgc ctgggactat 5160
 cgagatggaa tagagagttg gtttacaaca taaggggggt tcggaagcgg cagaaaggga 5220
 ctagcacgct attagatgga cggacttgaa taggatagag ggaaaagttc aactacatag 5280
 atgaaggcta tattttactt agttttacga gatgttggtt atgatttcag ccaatgccat 5340
 gcatatatac attttacatt atctacatcc tggtgagagc gttgtagcaa agaactgctt 5400
 atcagaagat ctagcaccat tcagcgtcaa tcataaattt cccacccaat ccagtaagac 5460
 agggaatgct ctgagaagcc acaccacca gaccctatct agccctaact cgtactccac 5520

ccgctataca ccggggcggc aaggcgtcaa aaaagtctcc gtccgccaaa agcaattaat 5580
tagcagcaga aaaagcaaaa agaaa 5605

<210> 5897
<211> 11312
<212> DNA
<213> Aspergillus nidulans

<400> 5897

gtgtattcat ttaatcctta tctccctatt gtgagaatgg ctcatacgcg ataaaatgca 60
ctgggactca ctgaaagggg ggatgtcctg caaccgggga aatccatcca ggatcgcttg 120
gaatttttcg ccgaatgttt cttgagtgtg cttgaccttt cgagtgtaga agcctgaaat 180
aacgatgttg attaatcatt caagttctca cagcaaaata attagggcca caagtacctc 240
gaatacgact gatcttgaag cctgcacgaa tctgagtggg caactgccgc tgtgtacgac 300
tgaggacaat atccaggaat tcctggctgg tgggcaccgg aggaatctat caagcgggtga 360
aagcgtcagt ggtgttttga aagaggctac ggggcgcagg atacttacat ctttccaagt 420
ggtcttcatg atgggcacct ccgtcgatta tgaaaaatga cttcaataag gttccccaag 480
atgcgatgag ggcgatgggg caatagcctg tcaattaaaa aaattatggg gagggcggtc 540
ggaggcagaa tttttggcgg gcggtgagct aatgtggggg ttctgcagtc tctaaccgag 600
ttatccaatc agcagttctg agctccagct ttgcttcagc tacaataaac agtttacagc 660
agttcaattc gagtgtctga atacattgac taccgaagta tctatggtaa aactgagcc 720
tgccctgacc aaccaaaccg gtcacatcat catagcagat catatcatca taccagtaa 780
ctccattgct tttcgaagtc gaccactaag accaaacaca atccatgaac atgcatcgat 840
gggaatgaat acgaaggaga aagagggaat aggaacaggg agtgctaatac aaaagccgta 900
gaaggatact cttagcggaa gagataccgg agaaatacct cgacagacca gtcactccg 960
tgttgaactc tagtacctga acacagttag caciaaacctc aggcagactt ttgcgcagat 1020
aaattttacca tatctgtcca gccaccgcca ccaaactgac acttgcttgg gccctattc 1080
tcaaacccaa gtccttcgta aaacgggatg aggttatcgt gtgcaataat cacaatgcga 1140
tctgcgatag ctgcctcccg gattcggtga atataggact tcatcaatgt gcttccaacc 1200
tgctttcctt ggtgttcgcg tagaaccgcc agagagtgga ttgcaattgt gcttccatac 1260

tcgtcgtgac caacagtctc cccatcaaca actgttgagc gcatgggtctc ccagtcagcg 1320
 ggtagttcca tcgacttata cgtgacgaag ggggtggaag tccgagtcgc aataacgtgt 1380
 ccgacgagtg tagggcgagg tttgggctgg tcagggccga gaatcggaag agtgaacagg 1440
 cccaggcaaa gctcagggca tcgtccaagg cgatagatga actgttcaaa cgaagtcagt 1500
 acgagtcgcg agtgacatta gcaggaacgc atgccttctc tctgggtgcag cgctcatttt 1560
 cgggaaatga ctcttcacac gcaagacagt cgtccacgtt tgattgcgtc agaacctgta 1620
 cgaacggatg caggtcgtcg agctttgacg gctggcgcac gggcgggcca cggaaccagt 1680
 aggatattc attcaaatac tcatgggtcaa cggcgacata gtcttcgtca acctcttctt 1740
 catcttcgtc ttcgtcgggt tcttccaaag ggtgtccgtt ggtcatgac gcgtctgaat 1800
 ggtcgtagcc gccatgagag agatcgttgc cagttatagg cagagaaaat ccgtccgcat 1860
 tcgataaggg cttgagcccg ttaatgggat ggtctgcggg ctgctgatat gactgggtccg 1920
 acatggcttg ggttgacagg atgctgaaga cgcaggtacg caagcgtttc ggtttgtctt 1980
 atatatacgc actcgtcgtg tttctgagcg aaagagccta aggcagtatg agactgtaaa 2040
 gtgcagtggc ctgaaaggag cgattgagaa ggcacagtgt gggttgtgga ctgtggacgg 2100
 tagattaatc cgatcgaaaa aatggtcaga gtggtgcgct ggtggccact ggtggggcgg 2160
 caggaatgca ggtgataaga ctccaacaaa cagaaagga ggtgacaagg gtcgagaacc 2220
 ttgccagatc ttgcagactg caagggtcag atcctgttag tatattgact ctcacgtact 2280
 tgataacctga ccatgacgca cttaccactc cgaggattct attgagtttg aagagttttc 2340
 gtccgtcttc cgaagtgcgg ctgcggggc aaaggacgtt tatctgggca ggccctgggtg 2400
 cctatcttcg atctccccc cttctcgggtg cttatcgaat tatcctgtct caactctgtt 2460
 cctgtgcagg ccagctcgag ccgacaggtg aagggaacat catgagtcta atcaagcaat 2520
 aggagtcagt agttctcccc gatccagtgc gctttctgat tccttgagcg ttaacaaatc 2580
 cgtctctcgc tctgtctctc cgatggtttt accgagatga gggagcagta tcaccttatt 2640
 gttgacaagc ttcggatgat tgatgggtca ttctaattct catagacatc agttcaaaag 2700
 gcaacttgct cattcgaaaa ttctcgaac ctctttcatc agtgcgtctt cggctagccg 2760
 gttcacgcat agtggtgatg ataatcgcac cgtccttcat cttctgaatc ggtgattctc 2820
 aaacaagata tgatgtggca gcgttcaata gcatattcag tctgataata tcggcgtgct 2880

tcaagagctc	atttgaaaac	agtatctggc	attgcctcca	acaggtcagg	caagaatcag	2940
acaaccggat	tggctaagcg	cacctcttc	tttcttgcg	actcttgga	tcttgga	3000
ttggacatta	tgacagatgg	tcttcataca	aagttctcta	ttccaccatg	caagtacccc	3060
gaaaccagtc	agctctgcac	cgaatatgt	tcaaagtaca	gaatacctgc	gcggatcctg	3120
ccgtcctcgt	tcgcccagg	atcttatttg	caggattg	atcactaagg	atccccg	3180
tccattcatg	attctgca	acttctatga	gaatcatggc	gtggcgtaaa	ggtttcagga	3240
tcatagacat	ggcaacatcc	acgttcgcg	tagcgaccac	tttgaggag	tgagatacgt	3300
atccccgcg	cgggtgtagg	taggacatca	atattgtcct	aaccagcgcc	actgtgttat	3360
atgtatcaac	gcgtttggaa	gttgtgcaca	aaagcctcac	caagtttgcc	ttccccagca	3420
acggaaacag	ccataaaaagt	cccacgactc	cataggccct	gtcgacagcc	gttagaactg	3480
cctttttgtc	tcgtttgaca	ctgaagaagc	ttataacttcg	acctgggcgt	cttctattca	3540
agctgagtgc	tgtagtgggc	cgatgaggag	cagacctggc	ctagagggtg	tgctgacacc	3600
tctattgagg	atctgtgcca	ctgtaccagc	caagcgtcgc	gtcgggacta	tagaactaag	3660
aactgagcgt	cttcgaccgg	atattggagt	ttgtgggcat	gaatagcctt	cacctgcata	3720
aagcggggaa	tggtgagagg	taacaagcat	agtctcggct	ttcacactga	acaccatggc	3780
cggcgaaatg	cgctcttcgc	taagtacaaa	ataggtgatg	gtctattacc	agggtgctaa	3840
tgatgaggaa	catatttcag	gcattacttg	agcagccagc	ctgatttaga	aaatgtgcca	3900
tcccgcgata	cgatatcaag	atccactatg	tatacggaac	tggcagtagg	cacccccacg	3960
gctttggatt	tccacttcga	atgcaaggat	gcatttcaga	gagcccgtca	ttattggtcc	4020
tggttaatta	cctcagataa	ttcgacgggt	tagtcatggt	aacaacgcaa	tcccgtaatg	4080
gcgctcaata	taaggtgaaa	tggttgagaa	atcgctcatg	tagctacttc	gtatactact	4140
gcagggaa	agagccgagc	gggatcggcc	tcggttgaaa	ttgacgcagc	cgagagcgga	4200
gcggaagatg	catcgtcatt	gactcattta	gttctcg	tatcgacca	tttttcttcc	4260
tctcttccga	ccgccaactg	ctcctccaca	atgttctctg	ccatcccgtt	tccttgaggg	4320
gcttgatagc	ttgtctgtcc	ctgtccctgg	atgggcctcc	aacaattcca	gcattaccat	4380
gagctcgagg	gtgctcgctt	cgcgggccgc	gcagcctctc	aaggctctgag	actacacccc	4440
caacaagccc	aattcttgct	cctcctcg	ctagcggcat	ccaaccgttg	taggtgctgg	4500

tgatgaagct	tatcccactc	ctcgccgatg	tttctcttca	ttgcacgata	gcacagttaa	4560
tcagagcgcc	gacttctcgt	ccaccagcaa	aaattatgat	cgccttggcc	gacgggcgaa	4620
ggagaagttg	cttgatcggg	tacgctatcc	agcactttaa	tcgttctttg	ggcgtgtatc	4680
tgaccttttt	ttcttttctt	tctgcaatta	ggaattcttt	atgagcttgt	tgaactcagc	4740
gtctacaaaa	cgagaagcca	aatcgtaact	cgcccgctt	aaggcccaac	aaccagcgaa	4800
gccgcaaaag	aagttgcaga	gcacaacagt	acaacagacc	attgccgaat	cgctaccttc	4860
tggagtcaac	ctgggatctt	tctacggcgc	atcacgatct	gtatatcaaa	gtcctgtctt	4920
cagacaagac	tcaacccttg	cccttgcgcg	cgaggacata	ccggagcgac	tgcacctggc	4980
acttgtcaag	ataaagactc	cgcagctgct	ggatgactct	acccttgatg	gagtggccag	5040
gacgctttca	cagattaacc	ggctgggctt	ggcctgctgt	gttgtggtcg	atccgggctc	5100
ggacggcgac	accatactt	tgcgaaaaat	agctacggag	caggtaggcc	gcatcgcaac	5160
ggccgtcgat	cgtcaaccgg	attcgaaatc	ttcccatcta	tattccgttt	tgtctttccc	5220
agctaaaaga	ccagatatat	cgactgtctc	atcccgaaa	cagcttctca	gtccgttacg	5280
agatggtcac	atcctgatcg	tgcgcgcgat	tgcttatatc	gaggacactc	ccaaggctct	5340
tatggtaccc	gctaatagat	cgtttcttgc	tttgacaaaa	gaacttgcag	gtttggctac	5400
aatgccagat	cctgacgagg	accgatgat	tacagctcag	aagatcaatg	atctacaaaa	5460
ggaagtttct	ttagaccggg	tcattcttgc	agacccttg	ggcgggtgtc	cagcttttcg	5520
aggcccacaa	acatctcacg	ctttcatcaa	tatggaccaa	gaatttgaac	atatcgagcg	5580
tgagctgcta	caggttcgca	accagcccaa	taatagccag	ggcgagagtg	tggtcacaaa	5640
tcctatctcg	gacagcaatg	cggctctcaga	atctgccagt	acagagccga	cgtctacgcc	5700
tgccaagcaa	gcgctattgc	ctatgagcgt	tggcgaggat	accattgatg	gccatctgga	5760
taacttacga	ctgtcgcaca	aacgttggcc	atgctcccg	ctgcatcttc	cgggataatc	5820
acttcaccag	ttgaagttgc	gaaactccgc	acgttcgctg	gaatcgagtc	cttctgagct	5880
gtcaagtcgg	tacgcgacgg	caaagaaacc	ctctgatcca	taatcttctc	acagacaagc	5940
ctctgctttc	atcgtcttta	cctctgagcc	ggcgggcgcg	tggctcgctt	catctccctg	6000
ccctccaac	caccttcgtc	aaacgaggca	tgctgtcag	ccttatccct	gacccgcgcg	6060
tccaggtgtg	gacggcacag	acacgcccga	acatgaatct	cgacgatcct	catgttgacc	6120

ttccccggct	ggtacacctg	attgaagact	cattcaaccg	caagctagac	gtaaaagact	6180
atctgaaccg	agtgaatggc	cgattggctg	gtttaataat	tgccggcgaa	tatgaggggtg	6240
gtgctatatt	aacatgggag	cttccccctg	gagtggagga	tgacggaagc	gaatctagca	6300
cggccagaat	ggtgccttac	ctggacaagt	ttgcggttct	caaacgtagc	caggggtgcag	6360
gcggcgttgc	ggacattgta	ttcaatgcc	tggtgcggac	atgctttcct	aacgggggtat	6420
gttggcgtag	ccgcaaggac	aaccgggtga	ataaatggta	cttcgagcgg	tctttgggggt	6480
cctggaagct	cgcagatacc	aactggacca	tgttctggac	gactcctgac	ctgcctgaga	6540
agccgcagaa	attccgagac	tacgaagctg	tctgtcggag	catacagccg	agctgggcag	6600
aagacacagg	tgtaatagac	tgatttatac	aaatatgcac	gtagacggta	tatagaatca	6660
tacaatgaca	ttggaagcca	caacatcacc	tagtagtta	acaaaaata	gcagtacagc	6720
gtcgatatat	actgagtctt	ttctcaccgc	cttcgggtta	tcctcaatca	acaaggcaga	6780
cagagccaca	tttctccttt	gcgtagcacg	gcattattgtc	ctcctgttct	gaagcgctca	6840
tgatgggcta	cccgtcatgc	cgatctgcac	tgagtgtctg	taccgggtct	cccctctgta	6900
tagcgcttac	atccgctccg	acgatcgatc	actaggcaaa	ggcgtgcgct	tcacgcaatg	6960
tccgcgctgc	aagcgattcg	ccgacacata	cgtcgagtat	gatttcgtcg	ttatatattat	7020
cgaccttgtc	ttaatcaagc	cgcaggttcg	tctccagtaa	catctgtttc	taaaactctg	7080
actgacttga	gctgaagggtg	taccgcatc	tcctcttcaa	tcgcctcgaa	agcgatgaac	7140
ataagttcga	tgtacgatcc	ttccagacat	taagaataga	ataactgtgt	tgacggaact	7200
gcaaacatag	cgtcaatca	tccgacttgg	agtccttcta	ctcctctttg	atgtttatct	7260
cacctgggca	cggatcgaaa	agtccccgct	gattgagacg	acattcctct	ctcgcgctcc	7320
gattatcatt	caatacctct	tttttcttac	attgaacgcc	ttagcaactc	ttgcccacca	7380
cctcacagtt	cgctcctctg	cctcattcat	tactttctca	tcacaatcta	cacctacaaa	7440
acaacccact	gctaccgcca	atgccgctgc	cactgaatct	caagctccgg	ttccctcaaa	7500
tcccaccacg	ccaattcttc	cctccttccc	tcagcaattg	gtgcaagcac	aacaagcgtc	7560
cgtcttgagc	ccgccgaaga	gcacaccgca	cagctccgtg	caggaacttc	caggtcttga	7620
gaatcaacga	cctcgccagc	catcaccttc	cagtccccgc	gactcattct	gcgacttgcg	7680
gccgcggttg	cgtcgtgcat	ccacaggccc	tatgcaatct	ttccaacaat	tatctcccc	7740

atctcaggct agtccaacag caataagcac agcgctcttt gtaagcagtt gtgcgaaact 7800
 tttcccgata ctcttggtta tatggggggc agatggccgc atttccagct caaactctac 7860
 tcccagttca gggttacggtg caagcgcagt ttccacccta cagccgaatc ccgcccagag 7920
 agcagaaggc ggatcggacc tcgtggtagc cggttcagcc ggctccggct tagcagaatc 7980
 atcgccgtcc gtttctcat cctcctgga aggcttaagt aagattatac cggcgggtat 8040
 accggctagc tatgtagcaa gctttgtgga ccttatgagc tcgctgttta cgctaggcgc 8100
 ggctgacatg catcttgtec tgctgagcaa tattgaagct ctttacctcc tcttaggggtg 8160
 tggatatttg cgggcgacgg cgctggctgt cgcgggggta cttgctagat gggccgtgca 8220
 gaaggttatt ctgggggttg ttgggggtgga taatcttcga ttatgcggtc agtccatgtg 8280
 acttcgtgga atacttcgta tacatacatt aattgaagca tggatataga ttatccaaag 8340
 taggaaatag ccgtacataa cacaatacgg ttccgcagga tatgcataac ctcaactggc 8400
 tcttctatgc cgagcgtgag tttcttcgac cgtcttccat ttaacaacgc tactccacca 8460
 tccatccaac cttaaacaaa cctcgagcag aattaagaaa gagacctact gcggcacccg 8520
 gtcaggccga atatccgccc tcttcggcgc aataagcggg tgccactgcg ccataaacgt 8580
 gatcgctaca ataccaaaca atcagcaatt tccttacctc gctgggggcaa agagaagacg 8640
 cgagagaaga aagaggatag aacatacccc acattaaata acagctcgca atcgagagga 8700
 tgagcgtgct tcgccagagt ctgtgtatat tacatattag cactgctcgc agcccggaaa 8760
 ttccgatttc tgagcaaccc cgtctcatcc cgtttcataa cagattgata aagggcaatg 8820
 tgacaaaacg acggatagac atacgtctga ttctcccctt tcggactgaa cacccaagca 8880
 gcaacggcgg cggccacaac gacgatgaag ccgattatga ggctccagct ggaccaaacc 8940
 cgtcagcttc cctcttttat ttacattgt ctcggaacg gtaaaaaaca taggattgga 9000
 tccggaaatg ttcgtaccca tttgccatga tgtgcggttc ctaagcggag tatgttttgg 9060
 aatcgagaat gaaggatacc gtggggggca gcttcgtgga ctggactgga ccagcctagt 9120
 cttcgagccc ggctctgggt ccgacgatgg cgcgtgggtt cgtagaaatc aactcgattg 9180
 cgagtgcgac gtcagttgaa cctcgttgcg cggagagggt gtcgtcagct tcggctagga 9240
 ttccggaggcg gagagacggc ccggcaaggg tacggctcgc tgaacaaaga gtgattcttt 9300
 gatggtcttg gggagattgt ctgtacgctg aactgaaatc gcgccctctg atgcttgag 9360

gctgctagac tggcaggact ggagcttccc tgggtgctgcc acattaaggt gcggatccgc 9420
tgatgtggct ggtggtgtgg ctgtgcagga cctatataac ttttgtatct tacatcttag 9480
aaaactgttg acattttatc cgccagccat ccagaagcac acatcaattt ggcatacgt 9540
tggcatctaa atgattgtgc ttaccttgta taggaatata agggatgttt gagctcagat 9600
caggattcag gattcagaag gaaacggagt ataagggaca gactcctgga tgaaatgcgg 9660
aagttacttc gaacataata gtgaggaacg cttagcatag gaaggaatga agtcgatgac 9720
tcattacggt tatttgaacc acatatccac cgtcaggata tcaaactgcc ttacaagtcc 9780
aaaaagataa ataacagtat aacttggtca gagtgaggt 9840
taggcaggaa acaaaaatca ctcttactt atctcaaac caagtcaaca tctaggcacc 9900
ctcgcggctc ttacggtagc tggcctggga tatgttagta tcctaagagg agtgatattc 9960
taaatggagg gtacctcttg ctcaacctgg agggaaatcaa caacaggagc cagctcgctg 10020
agaatctcgt aggaccgctt gtggtattct agctgcgcgg caataagggtc cgccagggtc 10080
ctcagtgggt caggggtatc aagaacctaa caacatagtt agcaaaacca acaacacacc 10140
tccagctcat attggcaaac atacattctt cataacgcta acagcttctt cagtttgtcc 10200
aaciaactca tcttccgcct gctcaatctc agaacgggcc tcctcgctca gattatccaa 10260
atcaccacca tgctttgcct tgatggagtc cagcatgagt cgagcattct ccacgttctt 10320
acgcgccttc gcagcaaaca tcaagttcgt gttcagagtt gtgttccacc cagccagaaa 10380
gcgcgactgg atttgggcgt cctgcgccag acggcctcgc ccaccttctc cgaagccagc 10440
gcatacttct ccagggcagt tgcgagcgga tcctcaccag ctgtagtatt cccagagtc 10500
tgggagccag ctagcgaagc gcgcgcaatg gcatggctga aggtcttggg ctgcggtttt 10560
gctgaagggg gtgcggttag tgcagcctga gcttcggcag ggggtgctggc ctgcgacaga 10620
aggtggactt tttcgttgat ggtgcgccc agatcgttga aggattcgcg gatgttaggg 10680
gggtagtcgt aggcttcgtt ggagtattga gagctgcaca ccttagcata ccacagccag 10740
attgatatag aatgcaacgt acgtcacctg aaggagtttc tggtgacta gcttcagggc 10800
atccacgcgc ttctcaagtt cgatgtactc atcgggaagt tgagtcttgt cttcaacctg 10860
accagctgc tcgcgaatta actgctgtgt gcgcgcagca aaaggcgtaa agttcgact 10920
attcaaaaca gcgaatacat cagtttcatg ccggtgatcc cacagtgtac agaccgcagc 10980

tcattgggag ctggtccggg gtacacatta acacgtaggc tgctgataac cttacctgaa 11040
 gttcttcccc aacgcctgaa acttgtccat gattgatgca actcacaaca gtccagctgg 11100
 tttaatgaag cgaataagta ggcttgaccg tcgcaggtga ggatgtgtgc gtagtctgtt 11160
 agtttgttta ggagagctgg tcggagagtg gatatagcga gtcgaggctc ccgcaccgcc 11220
 ttgcaccgcc actgtcacat gcggacatta aggttgtcaa gcgacagctt atagtaagta 11280
 atataaagat tcgctactcc caagttgaat aa 11312

<210> 5898
 <211> 7157
 <212> DNA
 <213> Aspergillus nidulans
 <400> 5898

ataccttcca tcactatcca aacagggtccc cactttttct atgtagtcaa cgtactgctc 60
 ttgatgggtg tgaaactccg tctctctcaa taaggaaagc gcatggggga gatattccct 120
 ccaaacttgt cggttggcat ggtcgttatg cggaataatt gaacttaatc ggtctgttgt 180
 tttggttatc cagagtggga accatccctc ctctctcatc cagtttcgag ttgctagatg 240
 caccaagcga tggaggctaa tatagccatt ttcaggttgt atagttataa aaaagaaagc 300
 atttaaaagt ccaagagcat cactcatctg cagctttgat cgtgggtggaa gaaaggcttg 360
 cgggatattg cgtggattaa tgcaggccat gagtaataga tattcaacag ccagttggctc 420
 tagcttctga atctgtttga atgatatcag ccatgttttc gctaccggat tctgcacgctc 480
 tgtatagcgt tggtcatcac caaaatcctt gctaaggagc tccacaacat ctgtctcctg 540
 ttctccaga aggggtcaagt aatcagacac ttccagacct tttttgttga tatatgcagt 600
 ggctggctt atagccaacg gaaggaaagt aagctgttca agcagacgaa tcatggcgtg 660
 agaatcatga agcaggctct tgcaaagaga cttttccagg aactccatgc cagtttttct 720
 gtcaagttca gggacttgca tcacataagg agaggctaag tccacggcta gttctctatt 780
 ccgagtagta aagatgatat ggccttgatt gtttaaggga agaaagtcct ttaatgggtg 840
 agtgtcgttg ctgcccttgg tccacatata catatcatct gcattgtcga atatcagaag 900
 ccaattcttg tcttcttggc cgaagtaagt cttgaggcgt tctttcaact tttctggctg 960
 cgtgtcttgg atctctactc tttgagcaat ggacaaaagg gcctgttcag caacctcata 1020

actggtgcat gggacccaaa aaattgaaca gtcagcctct ctgtcccgca tacggtacgc 1080
 tagctcaagg gctacttgag tcttgccaac tcttcctaaa ccagtaatgg caagctttct 1140
 cgggccatca ggcataga ttaaactttc caacttatgg atctcatcct ggcgggccac 1200
 aaagcgggaa tttctcccaa aggggatcac caagtgcagg tttctgcttc tgtttgcacc 1260
 tgctaagaag attaatactg cctgagctca tactagaaac tcaactgacct ttgcgggttg 1320
 cagacatcca gtacttcaag aatgcttttg ctgccgaggc tccagttgct gctgcgtatg 1380
 cttgccatga cttgctcttg tgactatcag catagtcaca gaccctttg ataatacgtac 1440
 atggaagatt atccacacacc cctgcccctt ccatttcaaa gccataaacc ttttcttttc 1500
 tgacaagctc atcacggtac tgcccagact tcatcacctg atcagcagaa gcgatgggtc 1560
 caacatatac agagggttg atattttcca aggtctttcg acatcgaact gcctgttttt 1620
 tgtcacatcc aaggctatca cagtcctcct ctaatgccat ttcacaaatc tcgttaggcg 1680
 agttactcct aagacaggag caccctgcag gagcatcaga gtaatgctta tgaagataag 1740
 aggcattaaa aaggatatcc ttgatatatg gacgatgcc a ttggcccct ctttgttga 1800
 gaacatggag atgttctcgt atctggctct gaaattcatt gcgagcattt tcggccctaa 1860
 ggccgttcag aagagcccgg atctcctgac ttggcctacc cagtatgtcc ttgacagcac 1920
 tcttttgttg aaaaccgcca ggatactgcc tgccaaagtc atattcaatc acagaatcac 1980
 tgatcatgac atcacctagg aatatttctt ggtaaactgg cggagaaggg gccctccac 2040
 agataccaac gactaatgca agcttgatct ctgtatagct gacttgcaag ctggaggcaa 2100
 cacttgctgc actttctttc ccaattcctg gcatgtagca caaaactaca ttatgattgc 2160
 ctatccttcc atttaagtat gcattcgcgt cgctggctg tttgccatag tactctccga 2220
 ggcggtcata atgctcatca aaaagggtt cgacagcgtc agcctcaagg ggaagggcgc 2280
 aaataacagc gactgtaaaa tcaactgcggc ttttcgggcg catttcagtc aggacacaag 2340
 taaaataaat aatctacgtg agacctctaa gcggtttcgc tgtgccagag tctcggtagc 2400
 aatgcatgaa cgagggtgcgc gaagccaagt catgaaaaag ctgaggcttt ttgtgggggt 2460
 cggcggaat tgactgtcca aaccaaccac ctgtcttcaa tggccgctca cgggaggggt 2520
 aggtagtgc aatcagaaag ataatacacac ggtcggacca taaccggtag ggtttaggag 2580
 gttgacgagg gtgaaagtca gccaatgagc gctgtgaagc acgagtcgta tacacctgag 2640

tcatctacct gtgaagttga ttagttatcc gaccaaccga ccgactaccg ccgatttcgg 2700
 aacgcgttga acatgttcag gttcagacaa ccactatgcc accaaaagcg cgcctttcaa 2760
 aggaactcag taaaggagtg aggaaggact caaatttcca caatctagtt ctagaaaagg 2820
 caagaaagta tgagtattca gcgtgcagaa accgtttcca agcctcttga tcaatgctac 2880
 gcgtcagact tgacggaagc tgtttaagag cgagcagcct gctataattc attgggcttc 2940
 taagctcagt aagaatttgg cagaacggac tctgactaga catgcccattg tattcgctct 3000
 tccgcctttc catgttggtg ggatggctag ttttccatcc gcagaacagc ccatcatcct 3060
 gtccgcaaaa aaactgggta atcggtttg gtaaaccgca tattgaaacc aaacacttca 3120
 attacatgga ataataatca tcgagcaa at gcaaagatcc tagatcctaa aggcaaggctc 3180
 taatcaactc cacaagattc aagcgcgga ttgcaccctt gacattgata tcgtttaata 3240
 attagactgg ctttgcaacg tgtctgatag caacgaccaa aatagttact ttacttagag 3300
 atgaaaacga ccgaaggcat caatacaatg gaatggtaa ttcgttcctg gttttatctt 3360
 caaataagac cttcattaag agatgggtta agaatatgtc ttgccagcag accagggtat 3420
 tgtagtaagc tctgctggc agcgctaaag attggaacaa gcttcaattg ttggacagct 3480
 actagctagg gctctgtagg ctttaaaaag tctttatatc tttgaactgc tagccgcact 3540
 gttgtccagt atcaactact aaccttggat ggtcatggct cccaacttat agctgccttt 3600
 gacaaaataa gcagcggaaa caattctata gctattgccg cctcattttt catcattcta 3660
 cagcctatag aagttgggtg ctttggctct ctgaagcatg cgaaaaggct ttgttaaaat 3720
 attctcctgg gaccggctat atcgacaact cgttttgggga gaagcaggca ggctacatta 3780
 tacttagacc taccaacgac tcgtcaacat agccatgcc gaaggtaatc ccaaccgtcc 3840
 ctgccaggag aggtccagcc tcaatactta acataaacat gttaatgcac tgctagccat 3900
 cgcaggtttg cggtgagcag tgaatcagct ctgcacgtgg agcatatata ctcgctttat 3960
 tatcttcttt gctatctact tttgccaccc ttcttttgaa atcttgtaca aggagcggcg 4020
 aaatctgctg ctccctccga cccacgcaat gtgattttta cccaagtcac tggaaatcgg 4080
 tattgtatat tgcgctctgc agcttccagt agaaaccgaa gacgaggaac tggatttgaa 4140
 atttggatac gggatatctg agctggaagt gctttcgga atgtagacgg tatgggggtc 4200
 aagagtttct gacgtggtag gcgtgtcctg ttacgtccc cctttttatc gagctgggaa 4260

atggcatcgc agcgcccttgt tctttggtgc caatgttttc tgatgtttta agaggtggaa 4320
tctaggaggt tagatgtgat ctgtaggagt tgatgactag gggattgacg ggtctaattg 4380
gcaagaggag gccccggggt taactctgtt tgatggtaga ctaggcagtc tctacatgac 4440
agcttcggtc cttactttcg ctcttaccga ggcaagatca actaacctag ggctatctaa 4500
atgcgacaat agtccctcaa tcatctcacc gtaagcgact gtgagtttca catcacaccc 4560
gtgagcgctg gtcaatgcgg aaagaacctg aggggagata ttgcttgtct ggttggttat 4620
tgcaagcagt ttccgtggca tgatgcactc actgctgggt gtgatatggt tgaatgcgat 4680
ccatccggcc tctaagtcaa acggaacatc aactggcgac gtgagtgtgg atatagagag 4740
aggtgatagt gagtcgttga tgcggaagac aggtagcctg tcgttcgaag atactgacgc 4800
tatagattga tcttggttagc atcattactc atataatatg gtgggggtca aactacctgg 4860
tcttcgattc cgtaaccttc gatggcattt caaaattccc catactgcca ggataaatgt 4920
cgggacggtg aagagcatgg tgataaatga gactacctct tcgatagacc aggacatggc 4980
tttgtaaagc tgttttctcc ataagctttt ccgcgcaacc tctatcactt ggtcgaaatc 5040
tattcctgcy ccatagccgg aaggtataat tgaaacgaga caaacaacat gaggtcagtt 5100
gagtgtgcct ctagggccat catatggatt tgaacctgcy tcggattctc aagtgggggt 5160
cagaaaatag acgagcatag cggctctaagc gctggttttg cttttatctg accggtggcc 5220
ggcaggctgt gcagaacgcc cgctggcgtc tcttttcacc cagcggctct ttggttctgg 5280
gccgttcgag ccagaaccca gccactgcat ttcactatat aacgtatgtt ttgttaggca 5340
ccaagaaaat aacgctagtc aaaatagggg aaataattag tctcaagctg aataaaactat 5400
attcgtgcag ccttgtgatc gtgagcagcc tgagcagcct gcgcaaggct attttccttt 5460
gatggcggca ggaaatgtgc tgaggtagag tactataatc tcccgttaata tcatttgggtg 5520
gtaggaaaca gcgtataatg tagcaaagca gcgtagcatg aaaaaaaaaa aaatatgaat 5580
ggaaaataaa ggaaagaagg aaataggtta aggccataaa catttgtagc tatagatggt 5640
gctaagaagt ttggattcaa cacttatcaa attaatacat cgtctaccaa cggtagcaac 5700
cttgtagatg ctattggatc gaacgcagct tccgaattca ccgggttggt aactatggcg 5760
ctgttggcag accctaataa tgcagtctga agtggttcacg tacagtatga ccagacgcgt 5820
gctcgataca gtgatcaact acagagtata aattctaggt acaatcatgt taacatcgac 5880

aaatccatga aacagccgga tcagttgagc agcaatgacc gactgaggtc tgcggcccga 5940
 gcgtccaaag ggccaaggag tacggaagag gcctgactgc agggatgatca tccctaacc 6000
 catagatcag gtccattccc acgtggcaga gttcgacgag gtccagatcc cagttctaga 6060
 tccggctgga tctaggctcc tgctctggcc tttatatatc taatgttttt tgtgagaggc 6120
 tctgcgctgc tggttcgca agatgactgt tcccgaaggc tccagaaggc cagaattcca 6180
 tcaacctagc ggtgaggaat agagcaaggc ccagactacg gtggctccaa tctgtaggc 6240
 gctgggggtg acgggggtga tgaactgtgg tcacaatcta ccccggtag attttgacca 6300
 accctgcaaa caaggatggg cccagcccct tctgtgccgt ttttactgaa attcattgtt 6360
 taccctacgc agaagagcct agcctgagaa cagaatgggt caacatactt cggactggca 6420
 gatggttaaca gagatcctta ctagtttatt ccaaatttta ggtagcgta ggatgacaat 6480
 cagtcagagg gcgcaatatc attgactccc aatgcgcgag ctttcatttt atgaggcata 6540
 ggtaggttcc gatagcatca gatgttggtg tgaggtaaaa aagaaaaatt tccataaaaa 6600
 aggttaagccg aacggggggg tcgaaccccc aaccttgaga ttaagagtct cagcgtctgc 6660
 cgattgagct agcccggtg ctattggtg aaatgctata ttcttaagt ataaataagc 6720
 cgcaccaatt gttctcttcc cttcataatt tccattgacg tatcccaata ttcttaatat 6780
 ccgtcgcgag gctttccacc ctcagccttt ccaactggcta cattaagctc ccgcaacatc 6840
 ccaactacca gaacaccgac gtcagtgcg atagaaacca tgcgaatcc ctgttgagca 6900
 cggttctgcg cgtccgcgcc gtcggtacct gcaatggtaa gaatatatat tttggaaaac 6960
 cgagaacggg acgcaacata cagaaaatag cagccttctt cctagctgac ttcgcagctt 7020
 tcaagatccg ttgaatagca gttcatgtt cgtctccgcc acgctggaca ccaatctgct 7080
 ttgcgaggtc aaatggacct gtatcagacc agttaacaat tgccttcct agcaccggga 7140
 gacaaacatg tcttacc 7157

<210> 5899
 <211> 7679
 <212> DNA
 <213> Aspergillus nidulans

<400> 5899

gatcgatact aacactgagc gattgcgac atctttgatc gctttaatct cgatctttct 60

tcgacccatg agggagagtg tttgcgagcg gagcgcgcaa cgacgaggct ttcgggacta 120
 aataatggat gaagcggata gaagtgaat tcgagtcgtc tttcgagtca agcagtggta 180
 gggtttggga aaagataacg aaaggataga tcgtgagatg gatcgactgg agcgcgcgat 240
 gagacaagaa agctcctgtg catttgtcag agccacgggg tctaccgatc gcgatgaagt 300
 caggttcgac ttctttcggg gttagcagaa gccggcaagg gtgaaacgat atatgaagca 360
 agtghtaactg cccgacagga agggaggatg aagagcgagg acatcgaagc ggcgctaatt 420
 ggggggctgg agggtagatg gatagattga cagttcggaa gacggtcggg atgaggggaa 480
 cgagacaaag gggagacaga attcgggcaa aacaaaggcg acgaggggcg cgtgagagta 540
 ctaaccttgg gaacgataaa gaccgagact tcgaggatcg acaggaaca ataatgggat 600
 gggaactgat ggggggaggg actggatgga tggaagagaa cgcatgattc ttggtcgaga 660
 cgagaagat tctaaagata gcctgccagg tcgaggcggc tgtccttaac cgccgcttaa 720
 cgccctttag ccgcgtgcta tttttact tcccagtcca gactctccaa tacaacgaca 780
 tataaatgca cagtatactt ccctacgttc taccacagga tgatatacat attcactggc 840
 atttttccc tctatgtca caccaacctt ctcggtgagg taatacgtcg acggacaaga 900
 ccggtgctgg gccttttgct aatgtacggc atcttatgct cttactagcc ttctcaaata 960
 gtctcctaga ctcaagaatac aggttggcct cccacaataa ccacgatgat attttcaagc 1020
 tcattgagaa caggaacatg ccattgctggc tccgaggtag gatgtgcaa gccagagcgc 1080
 tctgtgctgt gcagtgcagt gcacctggac ttatcattgc tccacaggct aagattaaag 1140
 gtgaacacta atttgaggaa ccccgattca tttccctaga ccctggacag agagtctact 1200
 accgcttgtc taaccacagc acgggtagca gtaagacgca gaacatgttg gctgtgcaat 1260
 gcaacttcca gaaaacatgg accatgctgt cataaggcac caaatataaa agcctaaggc 1320
 cataaagccc agatcgttgc ttccatatcg ggatagtggg gggtcactgc ttgatcaggc 1380
 tagctcatgg aaatacagtt agaccatta tgctcttttg attggacgca gcccctgacc 1440
 agtcacctga tcatttctg atgtctttcg ttcattatcc aaagacaatt gaacgaggag 1500
 agtatttttt gtttttggg caaaataaaa ttgtcctctt actacgtacc gcaatataca 1560
 gtacgccggg cagtaatgtg tgtatttatg ccccgagct gtaagagttg cgtcgccgat 1620
 tgactgaaga atgcgggacc cctgtttgac agcgcagcac tgacaagctg gataatattt 1680

aagcctgctg attgaagcat accaggcgcc agagacaggg ttggagcttg aatgtttaca 1740
tgctgcattg acattggttg atgactgac cgtggatgat tatcatttgg cttctggatg 1800
ggcaggaact gaaccacggc tagaaggctg tattttgcga catagtaa at ttcacccctg 1860
aaacgagcga ctgagtagat ccccatcacc atctcttcca tcttgccctc gcctcttccc 1920
ccccctcctt tgtttcattc gtcttctttt ctctctttt tttgctttca ccttcttttg 1980
gttctttcca cttaccgcag tcgaccgtaa ctccgctcgc tcttcgtctt gctgcacgtt 2040
cgacgtgttg tgctgcaggc gatccttagc caaccccaga tggcctttgc tttcctctcc 2100
aatttttcct gatccaccgc tcttgagctc tccggtcata ttatctccat tgctatctca 2160
atccgcgttc ttctttgtat gtctaactcg atctgtgcac ccgtttacca cgccgacatt 2220
accgcgcagc tccctctgtg atcccggtt gctcaaccg gtcgaaatac aaatcattcc 2280
gccgttgggc atcatcggt agattcactc tgttgctatt agccgcgcct cagtgcaga 2340
aatccagaat aattcagagt ccagaatgcc ttcgttact cgcttctttc ggagtaagga 2400
ctccaatgct gcgaaaaaga gctcaaatac acctgcggca gaggacacgg gccagcgaa 2460
accgacatgg accgacgcct ggcagcgaac cgagattgca ccggaagagg tccaacaact 2520
gctgagaggt tgcactcagg agctcaaagt acgaggtatg taaatgcccc tcttccctca 2580
agaacgtggc ctacttctt gcttcatttt gctgatcatt tctcgttct atcttgacag 2640
ctctgcaaac cccgttcatt ctacttccat tccgtccaag ctccgataca gtcacggccc 2700
gtacatttat tcggaattat tttaacgagt ctttgaaaag aggtcttct ttcgctgggg 2760
atgaattggc acacgaactt cgccttaccg acccgatggt gagatacagc ttccagcttt 2820
ccgggggatt ttgcgtatca cagttctgac ttggcgtgct ctttttgaac atcttctagg 2880
tcctatgcag tgttatgaaa tgggtgctgga gtagactccc cggaggtgtt gttacctggg 2940
aggcgtatga gctatttaag gttggcgaac aaggtacaat ctaaaacctc gggttgcga 3000
gcacaagtgt accgtagcac gggctaattt gcacacagac tctcagtttg ctgcgcagc 3060
cttctccacc tttataccca ttagcgtgga ctgagacgtc cggacaaaaa tcatcttcca 3120
ctttttcgat cttttgacag ctatcgctgc acatgggaag tctaacggtc tgggagggcg 3180
gaaactttcc cgatacgctg gatggtgggc atttgaacaa aatgataccg gcaatggctt 3240
tgaagcagcc tacaagaact ggacgaggtg cgtagtatc ctatactagt tttcggtcat 3300

ttgctgatta tctaaagtgc tgccgatgca acgagtcacc tattcttcgc ttatctacgt 3360
 tcactttctc ccgacactcc tcgcggcatg agcggcatat ctacgctgcc catcgccctg 3420
 cagtcctctg tccaagccac ggaatatcca cctgaaacgc cgacattact tcaagtttcg 3480
 actaccaagg tggatcatgat cgtcgatata gtctccccc ctccctttgc cctactacgc 3540
 cgggcaaaga atttcgagta cagagatagt gataagcatt tgcaagaatt cgcagggttac 3600
 gaagaccccc gaaaggcctt aactgatgag tgtctacggg tcctaaaatg tatctcatct 3660
 actaaccagt ctgctgtcga cgagccggtt gtggctgacc acgatgcgtc atggctcgagg 3720
 tttgaggatc ttggtttcgg gggcgctatc gaagccaccc ttgaagagga caaggccttg 3780
 tccagtccca ccctaaagga gtttgagggt agcttaaggt ccgtacctca ttctggcacc 3840
 ggtgacctcg gccgtcctac aacaccatca tgggcccact tcattgtcatc cgggttcggg 3900
 gatgacaatt ctttcaaagc ccagttgct cccctacttc tgctcctga taaggctcta 3960
 ccgccaatcg cctcaatacg gggccaaagc tccaatccc acaaacgggg actcaacgac 4020
 gagccctcta tggaccctgg tgagttggct agtatcacca ctctcgactt ggacgactct 4080
 ttttggggg tttggatcag cagtttggct ggtgaagagc ccaccgcacg aaaagcggtc 4140
 ttcgggcat gcgctttgct cgagacggtc attaaaaaca caaatggtt ggtactagaa 4200
 gaacaagtca aggggtgctgc gccagatccc gaccccggcg cgtacattgt cgaaaagaag 4260
 cggtttttcg ggtttacgac ccggaggggc aagctctcgc gacgcaaac ttcggccaag 4320
 aagattagtt ctgtagagga ctctacaag cgaccaaca atcagggggc gaatagcaaa 4380
 gctagcatag ctccagacca acatgcccg attcaggcag ctgcagctgc actccaaagg 4440
 aagcaccgtg aagagcaagg gctcgccaac ggaacaaaat caaccgcagg gcaggattcg 4500
 tactcaaca agaccaattc cgtgatgact ctacagccat ctattctgaa cgaggcatct 4560
 caggctatga aatgggctag taactacgac aagaacgctt acagggccgc ttatctcaat 4620
 aatagccgtg ctgggactgg tgctgggact ggtgctgtgg tcgatgaaca gaaggaacag 4680
 cctaccccct caataacaac tagcaccga caaccgctc ctgcttctcc taagacctct 4740
 gctccccct cagccgcacc ggtaccagac gcaactgaga agcccgcga tgatgcgaag 4800
 gttaacacta atctgcgaa acagtcgacc gtagattctc cgaccccaga aaccaaggaa 4860
 tctgtcgagc ccgaattgcc gcacaaacta aagaaagctg gttttaaaaa catgtttgga 4920

acgaccaaga agaaagagac ggatattaag caacccatga agcctgtaga aggttctgct 4980
 gtcgctgctg cccgggctgc actagagagt aaggctaggg catctcagga acagccacct 5040
 gctcgcaatg gtaccactgt tctgaggaaa aagcctgttg cagcaacagc tccagcgaag 5100
 tctgttaagc aaatcactga ggtgcatgag ccaaaagcta ctgcgacccc agaaccagag 5160
 tctagtgcc cagcctcagc cccagcccag gttccggagc cagcgccagc tccaactcca 5220
 gaaaacatga gtgataaacc caagattcgg cgtgaggctg aatacgtatgc cctctcccgg 5280
 gtagatacca atgaacaggt agcggccgat caggaattct cccggtttga ccagggaccc 5340
 ttattagagc aacctgcgtt tgttccctgaa gactcaccgc tcgaggaggc attccctgcg 5400
 gagaagcctg aggatgagcc cccccccagt tcgcccgtat ctccaccgcg gatcaacaat 5460
 gcttctcagg accgttgggc ccagattcgc aagaatgcgg cggaaaggat tgtccagact 5520
 ggaggccgtc caagtaccgc tgatgaggat ggcaacacca gcgaggaaga aagtgagtgt 5580
 cttgcccgty cccaaccct tcaaatacag tactgacatc cgttcttcaa ggcttcgaaa 5640
 ctgcgcccgc ccgaatcaag gctagagtag ctgaattgac cggaaacatg caagctgcaa 5700
 accggcccta aaataaaagc acactatcgc ctacccttag acccttcgca gctctcaact 5760
 gtctgcatct tggtttcgaa ttctatacct actgaactct tatccatgtg ctcttttgta 5820
 tagccatatt cccttttgcg gttttgcttg attcttctact ttccttaaga tatcgactt 5880
 acagtacata tgttatggcc aagcctcacc tgtcccaagt tctcaagcca gacagacgta 5940
 cgcgatgatgc ccatccatgc tcattgatca tgatttgttt cctgttcacc ttgtaatcca 6000
 ccttcttttc tctccacgac cgtttgctgg tctaccttc cacgacagtg gaaagtctcc 6060
 tttcgtgttt tctctttgtt atattccccc tcttgtcttt gccttgtgtt tcttggttta 6120
 ttgtgatttt tcttcttttt gtgtgtctac ttggtatctg taaaataggt acctacctca 6180
 gcagactatc gctatttttc cattcctctc ctatttcac ttctaattat atgcctaata 6240
 caccaaocat aaataaaaat caactcattg gatagcatac cactctatct cgttctcca 6300
 actagcgcac tagcccaagg ccctatttat tgggacttct taggatggcg agatcacaaa 6360
 ctccaagcct agcaattccg cgggtggata cattatagag atagcaagaa tacatatgat 6420
 taatagtgca aagcgtaaac atatgctat gtagtatcca tacaatgcaa ctctttatta 6480
 tacgtacagc ttccgcgtca agcttcaaaa agcgcaagga caatcattag tatatccagg 6540

gtatcgagcg aattataaat gtcgctgggc ggaatcagga gtaaataat agcggatgat 6600
 taggaagacc aaaaagagga agatattaga agaacagcaa atgccttggt cgcgtattgg 6660
 ggaagagacg gagaatttca accggatcgt cattatagaa tataccgcat tcgcctcgta 6720
 gcctccatag caataagggc acacaaagcg ccgatgaaaa gacaaatcga aatggcggtc 6780
 ggtgtgctct tgtcgaggtc catccacgtt gagtcgctcg ccgagtcgtc gcgctttgtg 6840
 ctccctgggt cgaggatgct aaagacaatc caactgatga aggttccgac aaactggggg 6900
 agagtttgtt agacattgag cacgccaagg taaatgccgg caagctcgcc cgtggagggg 6960
 atgttgagga tgccgtcttc ggcgtcggag tcatcgtctt ggtcgtgatg gttaagccgg 7020
 agaacatcca tttccgaggc atccgagctg ttgaggtcgc cgtacgcgcc tgagcggatg 7080
 gaggaggagg tgatcattgt tacgccggag aggcgagaag cttgggaggg gttcattgcg 7140
 aggcgattaa tttcgacgcc catgaatgcg aagggggccc agcagctgac ggcccaaggg 7200
 atgccgcaaa tagcaacgag gaaggttgca aaggcacggg aacgggccag aggggcaaaa 7260
 atcatcgtag ctgcgaagac aacatgggag ataagccaag tcgtttggag gtcggggcgt 7320
 atcttcatga attttgtgag caaggctgct atgccgggag gaggccgtgg ggtaaaccgg 7380
 gcccgcttag tatctggcga ctggacgcag aatggtagaa gaacggaact gatgaagggtg 7440
 atggaggaga agacgactag tgaaagactt ccaacgcggc cgacttctcc cagcatatcc 7500
 actggtcggg ctgcgtcctt ggggacttcg taccgaaagt aggtctcgcc aacctatgta 7560
 gtactgtaga agaggaacgg aaaccaacct cccaaccgtg agcttctatc ctgatagact 7620
 ttagttaagg gaaataccga tccaggccca gaattgcgcc cagcaaagtg gcttgctc 7679

<210> 5900
 <211> 8179
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5900

caatcctcag acgtctcttc cttgaacgat aggctcatgc tcacagtgta ctcccactcg 60
 ctgttctctt tgggtgaacgc caacgagtc tccacgtggt cgtcattgcc gccgccc aaa 120
 cgaatctgcc agatgcgctg ttcggccaga cgatcgtctc caattcctgc agctgccagt 180
 gcacctcct caatccccct caacgcctct ctcacctct gctcaaactc aatatctggc 240

ttctctcggg acggtgagcg gtgcaggtat cgcgggagtt cgttgacatc atagtcgggt 300
 agccactttc caccgacaac gcgccgggtc ctgcgctggg aaaacaccgg cggcagcgca 360
 tggaggagaa agagcaagaa aagcaggatg agcaggaagg aaaggcgccg tcgcgcgaga 420
 agcggcagga aggattgccg ggacgctcgt ctcatcgca tggcattcta acggttaagt 480
 gcgaagactt tattgaaaat ctagaagttg gaaaatactg gattcgactg agttcgattg 540
 gactcaactg aactggacga actcgaatcg atgcgaaaat atagcaatgc ttagccgcaa 600
 acggtgatgt tgggcgggtg aatagctgcc tggcaggagc aggcgcagca ggaacatcag 660
 gtgctcacag ccatgatcct ggtgcagggc ctcgggccaa aattcaagtg cgcacatatc 720
 ggcgatcctg attatgaaag cgtgggctga taatcattga ctattcgaga catccatctc 780
 agggccaac cattctctaa cagtacctgt atctaaacgg cactaaagca tggaggccct 840
 caagcatcct ttgaaccgtt ccacggcagc ttagcttcag ggagagcaa atcaaatgca 900
 acgctgcaga gctctgtgga gagcaaattc ttgttctgga cactgctaa ggagccattg 960
 ggtccgctct ggggctgtgt gacgtgtcag gctcagacat agaaatgggg gcggaaatgg 1020
 cagagtagga acagagagta gattcagggc tgcctacagg tataacagaa ggctctaaca 1080
 atatccacta gagtacaccg caagaggaca gcattcgcaa acttgcgcca ggatcatcat 1140
 ttactagtct tgaattccgc atgcggatc ccgtctaccg tctagcttat ttccaaccac 1200
 attcccgatc gcagacccca agccttaaag ggcttgaga cgacaaagaa tgttgctatt 1260
 gcagtaatac tatggccctg gtagctcgac tataataaag acgtacgttt agcgtggat 1320
 aatccggtga tataaccagg gagaggcgat gctagaactc aggaaatagg acaacgaagc 1380
 caactcaatc gcgagttttt ctctctccca cttttctttt ttcttctttt tcttggtatt 1440
 ttggctaagc tacttggtga gacaatacta cagtaaaacc ccgctataag gaacctcgat 1500
 ataggaata ccccgttata aggaacctgc caccgtgtct gaattaaaac cccatataaa 1560
 attgcacaaa accccgttat ccgcaacatg caattttttt ccctttctcc catataaatt 1620
 tccctataac aaggatttgt ttccttcact tttcttcgc cttccttaa aaatggcaaa 1680
 acgcttgct attacaaacc gccagcggc tgcccttcgt gctcaacata agctaaggcc 1740
 taatttgacc ggcgtacagc tatctaattg gttgaagag gtgtataatc acaagatctc 1800
 tatatccact gtatcacgga ttctctctc aaactttgac tggctggata ctgcaagaga 1860

tcaccagtta gataccaaga ggcaccgcac agagagctgg ccagagcttg agtaagcact 1920
 ttatgaatag attcagcggg cagagactcg aatcacagta tctcaagacc ttatacatga 1980
 aaaggcacgc caattctggc catctatcta tccaggaaag gagatgcctc aattcagcaa 2040
 tggctggctc tggtgcttcc aaagccgtcg aaatatttct ttaaacagtc gtcatgggtga 2100
 agctagcagt atctctatag atgtggatat agagatgtat tctatttgcc aggctataaa 2160
 ccagtatttg cctaaggata tctttaattg cgatgaaact ggtctatatt ggaggataat 2220
 acctgatcaa agccttaciaa cttgctctat atctggaagg aagaaagata aggcatggat 2280
 catagttcaa ttctgtaciaa ttatggatgc ctctgaacgc cttcctatct ggatcattgg 2340
 aactgcaaag aaaccacgcg tttttcaagc tgctggagtg aatattgaga accttgggtg 2400
 ctattggagg tctaacaaga aggcctggat gactggaaag atctttaaag agtggcttct 2460
 ctggtttgat actaaaatga ctagaagaaa agttcttctt ttgctggata atttctctgc 2520
 ttatgaagca gcttttaag agatctcctt gcagcttcag aatatattag ttgtgtggct 2580
 gccggccaat ttaacagtaa aataccagct acttgatcaa gggatcatat gcacatggaa 2640
 agcttactgg gaacgcaagt ggctactcta tataatggct gaatttgacc atggctatga 2700
 tccagtggcc acaatgacac ttttatatgc tgtacaatgg gcaattcaag catgggaggt 2760
 ggatctgact tgcaagcta ttcaaaactg ctttacaaaa gccttgacca ctcaagatga 2820
 tacagaaata gtcaacattc agctcctaaa taagcttcaa gcaggcctgg atcagctagc 2880
 agtatccaat atctgagaaa tcatgaagat tgaccagttc ctaaaccga tagaagaaca 2940
 ggttactgat aatttagagg atttgatcac tcttattctt tcctaattta gtgctgaaga 3000
 agccgaggaa tctgatgatg aggagatctt agaagcactt cctaaggctt ctgcaaataa 3060
 tgctttagaa gactctaca agctacactt gcatgaagag cagcaagtag ctggaaatca 3120
 aactcttctt caggaacttc tacaccacga gcaagtattg atggaaagga agatgcagac 3180
 tcagtatcag actgatatcc agaacttttt ttctgtgaa tagggactgt atttactaaa 3240
 ggactgaaaa atatatcttt atacaagcgg gcgagcattt tcgctataag gaataccccg 3300
 ctataaggaa tataaaccgc ggtctgaatt gattccttat agcgggggtt tactgtacta 3360
 tatatagtcg atcaggagcg gcagtgccac tccatgggag catacaaggc atttccacta 3420
 caggccatct cgaccactat cctgcttaaa tactttgtga gacattgaaa ttccaaatcg 3480

gcaggcccgcc gccagcaggt ggaagatcaa agatctccag cctaacggta acggtcatcc 3540
ttgtcgactc ttcatacccg gtcgacgacg gcatagcagc acatgggagc gtcactccaa 3600
tgctcagaac cgaccgtggt ctgaggctta caaaacatga atcggatggg acttagcctc 3660
gagctttttc agctgacgat ggttcttgcg caacgcctac tgggagtgtc gctggttgac 3720
atcggctctgc ttcagttggt cgttgctcgtc tctagaaaca gggctggtgt ttaccttact 3780
cagtatacgc cccgggttcg gcgcaagctt aatcggaata gtacagagat gtgtatcaac 3840
ctgcgtggat actccagact tagcatgggc gttgtagaac tgactatcag attacgtgga 3900
tcatggcgtc tctccatgtg ggcaggacaa cacagagacg ttgacggcca tagcttgagc 3960
ccgctaactg acgttgccgt taatcaacgt gctatatccc aaaatggctt gcgaaagcag 4020
cggtaaatgc gctattgttc acttgattta ctgctcgagg ggcaggccgt ccgtgttacc 4080
ttggccgaaa gggagaggac aactgcgtag atctgcagca ccggcagaaa aacgcccagg 4140
agagatcaga atgctcggta tctgtcgttc ccacgaatat cggccgcgtc cgtaattacc 4200
tctcacacca ttgttcgacg tgtggctagc ctatccgaga ggataagatg agtgtcccca 4260
tgcccgatg cacacaacag gaatgctgac agtcgaccct cgtcaaggac tcaatagccc 4320
tagctaccag cagcatcgta cgctcgaat ccctggactc cgcactcatt gttatggaag 4380
gtccatcagc tgcgctcttc gtaacgtggg tgatattgat gtcttttggg tgggtgcaccg 4440
gctgtcagac cccggcttct gtgcatttcc catgatagtg gtggcgggtg tttcgcacaa 4500
aaggagtgtt gtgcttagtc gcgaacctcg agtctggacg acattcttag cgcaattcac 4560
cttggctaac tgatgacata ctgcttaacc aacctaaacg gatcgcaggt cattgatata 4620
cggagtcaat ggggtgggct ggctgtcaaa ataggtcctg aatgggcaag gctacaaaat 4680
tgcaggcctg gcgagaaccc tgtcactcta agcggagaag accatcggat cgtaatgggc 4740
tggcgctata gagctgccag tgggctcatc aggcggccat cgctgcgtg gttggattcg 4800
tccccggtct cgaacagcca gcagcaatcg ccaggaaagc ctcagcagga ccacgcccta 4860
atggcagaga tgatgatgaa gaaaaagcaa agagtcgtca ttgcgaagtt gagcacaaga 4920
agtctgagag aggaagagac atgcgctgct ggtggttcaa gaagccctgc gccgtttcct 4980
cccgtgatat tgtggtctgc tacctttagc agtctgacag ctgcgctttg tcttaactgg 5040
cgtaagctga cgtagataat aagagcctga acgtagcgat gctcagcaat tgaatcagtc 5100

cgattctata ggaatttctc tgtagactaa ctgcctttac agcatctcgt ctagcatgga 5160
 ccagtcatca accacagggg caaatttctg gagataatcc cgagcatcaa aatgacaaac 5220
 cttcgaacag taggcaggtt gccacgcacg tcgttgcatg gtgttcgttt tatggctatt 5280
 atcgtatctt tggttgatac tcagcgttga cgacactccg gtagatcacc acgaggaaaag 5340
 gaagagtggc tcaaatagaga gatacgttca tctgttcttg catgtcaaca ctatgctcct 5400
 gccctggatc actgttgctc atcaaccctg atagcgggtc tcttagccgc aaaattgacc 5460
 tgtaaccctg ttctcgtagc cgcattgagg ggacgagctt gatttgtaag aaatgaagtc 5520
 atgccccact atcaccatca actagagtcc tatataatcc cgtcaacaag tcccctagct 5580
 aactctatct tataaacaag ccattaccac caataagatt aaaatgccta agcttttcat 5640
 caccggcatc accggctaca tcggcggcga cgctttccac ctgctctcgc agaaacaccg 5700
 ggacttcgaa ttctccgcac tggttcgcac agaagcgaag gcaaagtacg tgcgcgagct 5760
 gtatccaaac gtccggatcg tcattggcgg tcttgacgat gcggacaaaa tagagaagga 5820
 ggctgcgtgg gcggatattg tgcttcgtat gtcaatcact ccccatcgtg taaaagaacg 5880
 agatgtctga cgagcacaga taccgccgac tcatccgacc acgtcgggtg agcgaatgcg 5940
 atcgccaggg gactggtgca aggccactcg ctggaccgcc cggggacttg gctgcacacc 6000
 ggtgggacag gaatcctgac atacttcgac tcggacgtcc ataagggtcca cggcgagcac 6060
 aacgacaagg tcttcaacga ctacgaagga gtttccgaac tgaccaatct tcccgccgct 6120
 gcgttcacc gcaatgtcga cgagatcgtt ctcaggacgg gcgttgagca tgccgaccgc 6180
 gtcaagacgg tcatcgtctg cccaccgacc atctacgggc gtggacgagg ccccgtcgcg 6240
 cttcgtggcc ggcaagcgta tgagctcacc tcgttcgttt tgaaggagaa gtatgtccca 6300
 attatcggga aaggattggc gaggtggaac aatgtgcaca tatacgacct gagccggtta 6360
 ttcatctgctc ttgtgcgggc ggctctggat cccgccagga aagacgataa agagatttgg 6420
 ggcgagaagg gatacttcct ctgtgagaat ggagagcatg tctggggcga actgtcgaag 6480
 ctggtcggcg agcaggcgca caagttgggg tacctcaaag acgctccagt ggtcaaagaa 6540
 atgtcgggtg acgaggcgat cagttcgctt gctggctttg aggcggccag ttgggggttg 6600
 aactcgaggg ggcaggcgca gaggggacgg gaagtgcctg gatggtcgcc agaggagaag 6660
 agcattgagg aggagatccc cgatattctt gctgcggagg cttcgaggct cgggtctgtag 6720

gctggcgcg cgtcttatg ggcggcgatg tactgtgtaa tggttaaagt atgaagtatg 6780
aatcattcg cagacggaca gttcagctta acgataatgt ttccaccaac cggtgaaact 6840
cgtctgctta ttgcagtcga atcatcggtc gccgatgagt aatcataaat cagatcacta 6900
atctctctac aaagttaact tagtttacga agtactttac atcgtattcg ccagccaaag 6960
agtccccctt cggccgtccg ccaattcctt aatgaaagcg tgcttcagcg atcatctttg 7020
actggggcca agaagcaatt gtttgtctgt tccactaggc acagatctgg ccacgaccga 7080
tgatgagggg gaccgttgag tagacctcgt atccaacgtg tggcgtggct aggtatcctg 7140
ggccttcgta tcggccaaat atataactga cgtatatcag cgagagggat aaccacaatc 7200
acaactcata caccgatca gtagttttag ttcacctacc tttggatctt ctaagttcta 7260
tttgaaacat aatggagctc gaccgacgg cgctctccc ctccagcaag atcgaccata 7320
ttgggatcac cgccccaaac gagcagctcg aatccctcat cgagttctac ctcaaagcgc 7380
tggcgcccgt cactacaaa gagatcatgc ggtttcctgg ggctgttggg ctcgagaca 7440
aggtcccga tttctggatc tcagagacga aggtcgagac tccgcaggga ctgcactttg 7500
cgttcactgc ggatggtatg ggccttgat gctggagtca ctacgagagc tgattcggtc 7560
tagatcgcaa gacggtcgat gcgtttcatg aggctgcgt cgccgctggc ggaaagtgtg 7620
acggcaagcc tggctctacg acagagtacc atcccaatta ctatgcggcc tttatcatag 7680
acccagagg caacaatgtg gagattgtga gtctatcccc tcatccccgc atccctcat 7740
ccttcatagc ctcatcatca tccccctttt gttccttccc ctttcatcc actcatctga 7800
cggcgatagg tatgccattt gcccggtgga gagtagagca gccgtcggtc ataataaagt 7860
tgcccgcgga aaggaagaca cctgctttta tactctataa ggtagtgatt cggaagttgc 7920
cgagattgat atctataata caacagaata agtgcccgat caggaaataa gtcccataga 7980
taactcccat ctattagtat atcacctgt atatcgacta gttcgccctg cataccttga 8040
ctcgaaggag taaaactgtc ccgatatcg acggagtacc ttaggcacg gcccgccatg 8100
aaaagagagt gggtcgataa ttttacagtg ggacgatgag agatttgttt gactttgttt 8160
catcagcact gcaagggcg 8179

<210> 5901
<211> 3611
<212> DNA

<213> Aspergillus nidulans

<400> 5901

catccaatga atcaatgttc agtctttcaa tggtaggaga taccctatcc gcagaaaaca 60
cttgttccaa ggatgtactt actggattgt tggccttctg aggtccaagg tgctgaagcg 120
ctgaagtagg gcgtcagatg tcatccaata gagatgagct tcagggttca gggttccaac 180
acatcttcgt tctctgaggc ggatcaagat cgccggccaa tgaatctaca tttggccttc 240
agtggttcga agctgatgtt cgtcagtttg actatgaaat taattggctc atgctgaggt 300
cagctcatcg tgcccttggt gaagcactta ccacttcaact caattcaccc catcttggcc 360
atgtacaaag accgctctca aaacgccata ggaattttca gcagagaaca ctccatatgt 420
attaatgggt caaattcacc ttgcttgaaa tcgccaatgc tctgaagtag ggttgaaccc 480
ccaattataa gaaaattgac ttgttacaga tatctacatt cctatgaccc cgtaactgc 540
ttctagcatc tatcaaacag acagaaactt gatttatact tcaatttcta cccagcaatg 600
gggctgaaga agaaaaaccg caaagtctca caatcatcta tgccagccga tccagagctt 660
gagccagagt cctctaactg gccagataag aaggcacaag aacatctttt ggatcttatt 720
actaggtaag aaatgtgtaa cacagcttag ttcaagaagc attgtacta atgtaaaatt 780
agccttcac tcaactcaga atacagcgat ttggaaattg tctgcaaggg tagaaccttc 840
ccagctcata agcttgtggg ttgctctagg tcagagtatt tcaaaagagc ttgttttgga 900
gaattcaagg tgcgaaaaat cagactttta aatagccttc agactaagtc taaccgactg 960
cttttgtaat caggagaccc gcgagcctat ctgtcttgac aatacagacc cagtccttct 1020
tgagaagggtg ctgaattcc tatatacggg aaattatact gtcagacgcc ttatccctga 1080
agctcaagat ccacagctta atagcaatac ggagtgtgcg aaagagtctt tgataatgtc 1140
tatctcgaaa gtacatgctc cagatcagct tgcatacaca gtagaagagg ccaccaatga 1200
gattagcatg cgcaattcag aaaatatcgc ccaagacccc attggtggaa gcaacaaaag 1260
cgaccaggag gatgctgtgg aaccgctcat taatcctgca gctgaatacc acccatgcta 1320
tttctacatg cgcggtgtctg gtaaagcaga ctattttata aatagctcct tagaagacaa 1380
agcaaggagg caatttcgta catcttttac agattgctca gagagagatt tgtttgccga 1440
ggatgatcaag gagctctact cagaaggggc caactaccag gacctaataa cactggcaat 1500

agatgtggtg gtcaacaatc tgcctagtct tcaaaaaggt ttcagcacag caattgattc 1560
 ccagcttcta gaggcagtcc ctaactgcgc tattgatctt tgtcttgcaa taatagataa 1620
 gtatatgagc gagccaccta acataaaacc atatccactc gccacgggct ttgaatataa 1680
 gggagttgac tacaagtctc tactataaga ttttaagaaa taattgaaga gcatgagatt 1740
 gagatgcttc ttgagaaggt acaaagaata ggcttgatat tagcaggtaa aaagaggttt 1800
 acaaaggact gagaagtaac agtaacacgt ccgagtcaaa ctttgtttct ttgaccttat 1860
 caagaggcgt tgcttctagt cgtagcagac tagtccagca tagatttaag agatctttta 1920
 gaattctgta tgtttgtttg atatactttt agaggaagct accacgcttt tcacacagga 1980
 ctccagaaa attgtcaaag tggcattcta gtacttgttg gacactagta aaggggtcag 2040
 ctctttatag aaggatcttt gggggatata catacatagt atttgagatc tcaaactctc 2100
 ctctgcttgg aagaaaatag actattgatt taccaaactc tagggcaagt atatgccagt 2160
 tcctgctatt atatagttta cattgtagga ttttatatta gtgcctgaat tctggatcat 2220
 cctgttctag cagcaagaac ctcttagaag taatatatac tatagtctca ggatcagtaa 2280
 atgcttgctg gctgtcttgc tgggtattgca tccttttttg cttatacaac tcaacaagat 2340
 caattagggtg tagccttggt caaatagaag caattaaact agaaccctgt aatatgcaaa 2400
 gggcattcaa catattatca acaaaatcca gttttggaat agggaggata ttgttatttt 2460
 attgcatcga gcctaaaatt tcttgaagct gagccatagc aagtggactg gctatagcaa 2520
 aaaagagcca cgtagtcaag agcttgtcag gcccatattc agatatggat cccgtgaggt 2580
 ttctctttat aatagagatg ctgtatttgc atcccattat cctcagccac tttgtccaat 2640
 ctggtttgtg tctgggcctt ctaggccgtg gccttgcacc gcctgagtgt agcaatggca 2700
 gttcttgaaa aggtaaggct ggtggtgggg atagtaaggt tgtatgtttc gtgcctgata 2760
 caggttctga ttgagtggtc tcaaaagtcg tgctatcacc ctcttgagaa gttcctgtct 2820
 tcggagagaa tcctagttgt tgaatgtccg atttgcaaag tttgagttcc ttaaactctgg 2880
 taagctaaaa gaagagttga tgcaatagtt acaactcagc ttatattata caatttgtct 2940
 ataaggcctt ctatctggtg atatcagttt aaaagagtta ttttaatatc attttggctc 3000
 atggtgtgct ttggttgag atcagttctg aattattcac ctagtggcta tttatatagg 3060
 aaaaatggaa aataatcttt ttctgtgaca acagtagcct gatatatagg agcaaattca 3120

gttgctctct actattactg tagcaaatag agaaaaactt ggtttaggga gcatgcagaa 3180
cagataagtc gataataagt agttataaca gtgacgagcg caaaggggct ccatgaacta 3240
ggaatgctga aagtatatga gcaaataaat agtacttata tcgtcgcaga agatataat 3300
• gatcgtgggc tcaatagggtg gggctctact tcagtctact tatctgcttt tgcagcctg 3360
aagcattgct gaagctctgc tgaagtctgg cactattctg ccttgctgga catttcaggc 3420
tctcagccaa taaatagtaa caagtcctgt tctaattcaa taaccattat gcctagattt 3480
gccccagaac cttggtaaga ttactgtta atattgagat taccatcaca agttgagtgt 3540
aatgaagcag gttaaaatcc tctgtttag ccaatcagac atgcgaggtt ggcccagatg 3600
aacatgattc t 3611

<210> 5902
<211> 7727
<212> DNA
<213> Aspergillus nidulans

<400> 5902

gtcaaataag gagctccttt ctatagccac ggtcctttct tgagccacct cgacgatgca 60
tgtatctggt tcttccccag ctccagccga gcatgccagt gaagggtctg tcagaccctg 120
cgacatcccg ttcgattccc agtccagtc ttatgccttg gttgatgaga aagcttccca 180
gatcgtcgag gcggaaaatc agaagctgga tgacctgata ggcaggttca ccaagggttt 240
cgatcccgt gccttcagca ccgtcatcac ggcttccatt cccaagctca ttaaagacct 300
cttccccggc tcttatgcac atctcttgct tctctgttt gagacatttg aggcggttca 360
aactatccag ctgggctctg agacttggtt taaacgccgc tacagtggca atccgatctt 420
ctttccaagc gagaccaaca tcaccgatga aactttcttt gcggcgaaa ttgagaccct 480
taggaagctg ctggagccca tccgtgaagg gaaaaagagc tcgatcttct gggatgaatac 540
tcgacgtaca gatccctctc ggacttgca acagctggaa gcttctgtca gggatgacga 600
gtcgttcaag gaggacgtct gtgcggccct gatttcagga aatgagaaca gtatatgacc 660
gttgttctta agcctctttc tatgctgacg tctaacccta ggaaccatct acagccact 720
tccagtctcg gtcgaaagga cggcaatgta cagtatgaag cagttcgcat ggacgcatgc 780
agggtacct tgcactggga caactttaat ggcagcgaaa ttgagttcac ttcgttctac 840

cgcttttata aagcgcatat ttcgacaacc gagccctccc gcgccagggc gtccggctgg 900
 ctgccaccta tgtcaccgga aactcctcgc ttatctgcca gagaagctag cgagggtgat 960
 ttggcgaact ggatctccca tggcattggc gacgacatcg ttgacctcct gctcaagacc 1020
 gccctgtggc tcagcctggc aagaggactg gcagctgttc acctgttctg tgatgttgct 1080
 aggctgtttg tcctgcaccc gcctccaatg ataatctcaa aggaatatcg tcgcttcctg 1140
 ttgcattctca ttcgtcttcg cgctaccacc gggggagccc aattctcacc gtcccctatc 1200
 gtccctcgag ataacaaggc cttccccggg cgtaacaccg attacttcga ggatatctgg 1260
 agaacgagcc atcaactttc cgcggtctc tgtgatgaga tctctctgtt tgtcaagcac 1320
 aatatcccca acttcaaact gtcgaaagcc cccctgtcc gccgccgttc cggccatgga 1380
 gacatgcatt taatcacaca gggatcatatt cgtggaagct tcgccagtaa tgcgtgcggg 1440
 tcggatgagg aatctggggg aaataagtga gtatatcttg cctaccactt cagcacggcg 1500
 aagagagctg acctatcttc cgtgctccag cacaaccgac gactacgact tccttgattt 1560
 cttatccgag aactcctcct tttccggagc aagacagttt aattaccca gtctacttca 1620
 tctacgcaat tgtgatgcac atatctacat acgaatcatt atttgattta agcaccttcc 1680
 tcacgaaatt ctatgcaaag cgactacgac gccccaaaaa aaccaaggta tacattgaaa 1740
 ggattacttt tcaggattgg aaccgatatt ttcacctccg gataggaaac cattccagcg 1800
 ttgattgggt gttgggtatga gagctcttct ttctcgttct ctctcatttc gctcttactt 1860
 tgctcccagc tctccttttc tgatccttca ctcatccttc ctgctctcat gccccgaatg 1920
 tgacgcatgc aaggattgag cagagcagta gctcagcttt gatgcatcat atttcattgc 1980
 attgcagttt cattccattt agggccgtgg ggggaaagat aaaggatttt tcaaaaatgc 2040
 aaagcaataa tctcatatgt atccagctag tttaacagct ctcttatagg atcaatctgt 2100
 tcttccttca agaacttctt tcttctctt gtcagttgct gtgttggtgca tccatacatc 2160
 tcaactcaagc ccttaggcta ttgcgccaac ataccttggt acacaagggtg aaagacaggc 2220
 tgatgttctt atgcagttta tgactcatct ttctccgcaa gtcacctctt ttggccatcg 2280
 tctggtgttg gattggtgat aggcgcagtt ctgcctgcct cgaagccgga gccacagctg 2340
 ctggggcatg tgccctgtac tcctacccta caatcctcag tcctgatatg ggcttgaggc 2400
 agggcagcca agaggctctc caaccagaa tgaacgaatg attacacgca cgaagtaact 2460

gctcataggt agccaatgac agaggtacgc tgccctcacg ggtccgctcc cttcatagca 2520
ctattggttt ttcatTTtga tcacaacact tgcttgaccc tgctcatgcc agctgaggtc 2580
aaatatttgc atttacagac gattccttgg caataaaccc aaattgacga gttgaacttg 2640
atttccaaat gcctcgaggg agattcacgt tttcactgta taggcaaaca tgattctaac 2700
gtgccacgac atattggaac agccactggc attctacctt ttaggggcct cctagggctc 2760
ttccacacac tgggtgtgcc ttgtgttctt tctccctct atttatcagc agaaagagtg 2820
aaatatagaa aacaagaaaa ataaattttt cagacaaaa aaaaaagaaa aaaatgtcat 2880
gggatgacct gggatcgaac cggggacttc tagataccta gtcaggcttg gattgaagtt 2940
ttggcttcag tctagcactc ataccaactg agttatcacc ccattttaca agaagctttt 3000
tatgattagc ctttataaat acgagtttgt aacaagcaa tttacggcaa actgtgcgca 3060
gtccgattgt tgccatatcc caatcatggc ctggatgata gcccgtgacc caggcggtcg 3120
gtggtcgggc agaatgacaa aatcactagc gatagcttca aaacacaaca atcaatcata 3180
cttcatacat caattgaact ttgcagaatt gcaacaccga tcgtccgcta cgccaacgcc 3240
atattagaaa ttaaacggaa gctacagaat attagagtgt gcagaccaat agccttagtg 3300
cgtcaaacag ggagcagtga gtactacaac atccatcatc atcatcatct tctacaaaag 3360
tcagctcctt ttacttcgac agcagtataa aattgaatgt cccgaagcca atcatcctaa 3420
gttattcaga tttagagagc aagacaaggg agagatcatc cagggcctgc aaatttatac 3480
aacgaaagcg gattcttgcc ttggaagcag agcctcgctg cgaagtcaa catccgaaaa 3540
actcctttat ctccaaacag cctctcggg tgtcactgac tgtcattcgt cttgccatat 3600
cagtgtctcc tctagtatgc gccaatcaat gatacactgc tgatccaagc accggtgctc 3660
aacatatatt caaaacagtc tactcaacct ccacgatctt ccccgactct acctcataga 3720
tatcccgtag ttggtacgac tagcaccagc gggctctcct tcaacagccg aatgacctcc 3780
agcacgctct gcctgagatc cgcgaaacggg gggagggcga tatgatccgc gttctcgtgt 3840
tatgggtcct ttgcctatac aaggacctta gaccttagtg actcggccaa ggctgcgct 3900
gtcctgaagg cggtgagcca cctacaagac ttccttgcaa caacaatcct tctttctcat 3960
ttcttcttta gcgattcctt cttgtacgta cggcacgtct agataggaag atccatctaa 4020
atacgtccct taacattagg aatcgctgac caatctcaat aatagtatga ggagaccttt 4080

tactatgaca atggaagaag aaagcgtcgc attgttgcta cagcagctcc aggagctccg 4140
tacagagatg cggactcaga aacaacagct ccaagaagag aataacagct tacgggcgga 4200
actacaggcc gtacggaact cgcaactgag aaaccatcca ccagttacca ctacagttac 4260
atccgcaacg cccaccccct acgaacgaag ctatccccgt cctcgtcacc cggatgtcga 4320
accctttact ggagaagacc ctaaggacta cctcctttc cagatgaacc ttcgtacgaa 4380
gtttgcaatc gacgccgcct gctaccctac agaggaggaa caagtttact atgcctacag 4440
ccgcctgaga ggaaaagcca gccagcgtgt actaccatgg ctcttggtc gccagaaatc 4500
tgagactccc gtgctatggg cagaattctc cgcggtacta gacaaggcct ttggtgaccc 4560
tgaccgacag agaaaggctc ttgtacgagt gaatacaatg aagcaaggga aacgtgactt 4620
tgaagagttc ttgaatgaat ttgacgaaga acttcttaat gctggaggga ttaattggga 4680
tgataaccag aagaaggcct tgttggaacac ggcaattaat gttgagttgc taaaagccat 4740
ggttggtatt aggcaggagg attcgtacga caactactgt aatcaactgc gcgaaatcaa 4800
ccacaacctc cagagagtgg ccaggcttac acgaaaagga tctcgcgctg ctgtccccac 4860
gcatgtcgtc cgtacaagac cagcaggagg ctctgaccgg accgggaccc ctgatcaaat 4920
ggactgggaa gccacccatg ctcaaattgc agccctacaa aaggaagtcg cggccctccg 4980
tacgaaaggg accaggaccc caagaaaagc tagtcaggcg cctgcagagg agaagcaaaa 5040
gagggtgtct gagggcaaata gcctacgctg cgggtgatcct gaccacttta tacaagagtg 5100
ccctacaaaa cctaccaggc gccctaggca ggtggccaca gttcaggaag aacaagacca 5160
aatggatgac tacagcgaga gcgagtcgga aaacgaataa cctctgtgca aagtcgcgta 5220
cagagggggtt atacagctag agaaatacta cttgattggc aagatttcaa cagctcgcgc 5280
atgaataccc cccattctt ggtggaggca ctagtcaacc atacctataa tgctcgtaca 5340
atgatagata caggctgcct gacctatggg gtaatcagtg acaagtttgt caagatacat 5400
caaataccca ccatacctat ccaccogaaa cctttcaagg gagtgaccgg gaatatagag 5460
gagattaata agattgtacg ggttcagcta gacatcgggg cgcatacaga aaaaggagcc 5520
tacttctatg tgataccoga taacctgggc tatgacttga tcttgggact cccttggtg 5580
gagcaacatg atggaagggt agaggctaag aggggcaggc tgtacctctg tactactgga 5640
gtccgtctat ggagtactac aaagaggccc ttaccaaagc tgaacatagc acagatatcc 5700

gccgcaacca tgggaggatt tatacaaagg aaaaggtgcc gtggccaaga tattgagata 5760
 ttgcggtct cattggcaga tatacagaag gactggccc caaagagaca tattgacccc 5820
 cgtacaaagc taccaaggca atactggaaa tacctaaggc tcttcgaaca agacaaagca 5880
 gaagaactac caccgcaccg gggagatggg attgatcaca aaatcgagct cgtacaggag 5940
 gagagtggga aggatcctga agtcccctgg ggcccccttt acaacatgac ccaggaagaa 6000
 ctaatagtcc tccgaaaaac actctctgaa ctattacaga aaggctttat ccgctgagc 6060
 cattccccag ctgcagcccc agtactcttt gtacgaaaac caggaggagg actgcggttc 6120
 tgcgtcgact accgtgctct aaatgccatt accaagaagg accgctatcc attgcccctg 6180
 atccatgaga cactgaacca aattggacaa gccagatggt ttactaagct ggatgtgtct 6240
 gctgccttcc ataagatccg catagccaaa ggccaggaat ggatgactgc cttccgtacg 6300
 agatacgggc tctttgaatg gctagtcacc ctttttgggt tggctaattgc accgagcacc 6360
 ttcaaaaat acatcaactg gaccctccgg gaatatctag atgaattctg ctcagcctat 6420
 atcgacgatg tgcttgtcta taccaatggg gacctccgc agcaccggaa gcacgtacga 6480
 atggtcttga agaaactgga agaagcaggc ctatatttgg atattaagaa gtgcgaattt 6540
 gagtgaagg agacaaagta cttgggcttt ataatacagg cagggaaggg aatcaaaatg 6600
 gaccggaga aggtgaaagc aataaaggaa tgggaaacc ctactactat aaagggcgtc 6660
 cgaggattcc tgggctttgc caacttctac cgaaggttca tccctaactt ctcagggatc 6720
 gtacgcccac tgaacaactt gacaaagaaa gggacaccct tcttgtggac taaggagtgc 6780
 caggatagct ttgatctgct taaggaaaag tttattactg gacctgtcct agcaaccttc 6840
 aaccttcct actgtacggt agtagagacc gactcctcag gttataatac aggaggagt 6900
 ctctctcaat ataataaaaa aggggaattg caccatgtg cctacttctc taaaaggaat 6960
 tctccagctg aatgcaacta tgagatctat gacaaggagc tacttgcaat tgtatgatgt 7020
 cttgaagcct gggatgctga actgcgctca tgtggagaat tccaagttat tacagaccac 7080
 aaaaacctgg agtacttctt ctccccagg aagctgacag aacgacacgt acgatgggtcc 7140
 ttatttctca gccggttcaa cttcaagcta gtatatagga aagggtcagc caatcagaga 7200
 gctgatgcac ttccacggag agaccaagac atgcctgatg atgaagatga cagggtcaag 7260
 tcttgatga tgcaactttt tacagaaaaa cacttgggga agacggtagt tgccaccctc 7320

tgaccggctg aagagcaacc atgggagccg tacaaaaaaa gtgatatatg gaaggaggca 7380
 ctcaaatagg atgaaagata tagtgaagca gtactgtgcc tgaaagatgg agcaaggaga 7440
 tttcctccac acctacaatt gaaagtcaga atctcagaat gccagctgga cacccaagac 7500
 catatcctct tctgtgggag gaggtgggtg cctgatagtg aacagctccg tacgagtata 7560
 attcaggctg cacatgactc tatattgaca ggacatcctg gccgagagca aacatatttg 7620
 ctggttagcc gtgaatactt ctggcctaac atgtcccggg atatcagaag attcgtccgg 7680
 aactgtgata tatgtgggag gacaagtctt ggagagccag agaaggg 7727

<210> 5903
 <211> 7375
 <212> DNA
 <213> Aspergillus nidulans
 <400> 5903

ttctcagtcc gaaaataccc ggaaacgcgt ttgagggacg gttgaccatg gattggtaat 60
 cttgtatgaa ttgtgtggat gaacccact gccaaaagca cagcagccga ttcggtgaaa 120
 attcccaaaa gagtctggca gagacactgg tttactccga gattgagctc taattccggt 180
 tatcgacgaa cgcccgtgga gtcgtggtaa aatagaactc atcatccagg tcaggggtag 240
 gtgggttcca cccaagattc acgattcgaa ggggtcgacg cattcgatgt ggcaaagtct 300
 ccgcctggtg cagcaattca gccgcgtgca tcaacaatgc aacgatggac gctgaatatg 360
 gatgcctaatt cttgcctgat ccggtgcatt ctttttctg gcttggtcat tgcttgctg 420
 gctgcgatcc agccgatccc cgggtgattgg ctgtagatcc acggctaagc ctcgctgcgc 480
 tgcattagtc gaagcttggc aaaatccaac caacagaacg ctgcggtgtc tttcaatcct 540
 attccggccg cgtcagttga caaattggcc tccaaatgca gacactcgag ctttgtcgcg 600
 agcagaaaga agcttcaaag catttatatc gccggtatga tgcaccgcgg tgaaggcctg 660
 gtcaacacgc cagaccctgt ttgacagcat gccgcgtct ctcgcaccc cagctcaag 720
 ccagagcgac aagaccaaga cctcgcagac ctcgctttcg ggcaagtcgg atgagttagg 780
 tacgcggcat ccctaaaaca aggaatacat ctaactgtcc tagccccggg tgaagctccg 840
 gtctcgctca gtgggatgca gcaccttgat cgacatggca aggtgatcag tacgttttagc 900
 atcgaatact gacatcctcc gaaattaaca ttgagctgca gccgaccag accggtccaa 960

cccaactcgc ccacgtctgg agcgaccctc tgacacaatc cgcggcttcg aggccgctat 1020
 cagagcacgg cgggggcaac actgaacaat ggatctatga tggacctcga cctgtagccg 1080
 atgtggggat ttttgaagtc tgattctgcg ctcttatttt ggctggccgc tagaatgctc 1140
 ccttatactt ggtcttagtc ggaactgtcc aatagattgt ttacactgtt tactacgttg 1200
 cctgcttgag ttctagaaat agagctcggg aataacagat ccactcgggc caatttgccg 1260
 ttgcagcggg acgcgtcagc ggcactttta tatatccatt cgtgcacat ttgcttcttg 1320
 tcaatcgtct acagacctgt cgctcgttac catgaagttt gcttttagctg ccgccgcggc 1380
 ctcagccctc tttggccagg tgatggcggg cgttgatcct ataattatca aggtaccatc 1440
 gtttattggt gccaatagct gggactgacg aattagggtc cgaaattctt ttactctagc 1500
 aacaacaccc agttgtatgt tttcccatcc atacaaccaa gtctatgcta acgaccacag 1560
 ctacatccgc ggagttgctt accagcgtac cgctcgtcct aaagtctaag aattcgctaa 1620
 cagaagcaga ggactacacc accaacagca cctttagctt cgacagcagc tacaaggacc 1680
 ccctctctaa tgagacagcg tgcaagcccg atattcccat cctgcaggac gtcaacacca 1740
 acacgatccg tgtttacgcc atcgaccac cgaagaacca cacaacatgc atgaacatgc 1800
 tcgccgatgc cggcatttac gttatagccg acctctctga ccctccgag tccatcgacc 1860
 gcaacgatcc ccgctgggag cctgcactgt acaccggta cacgcacgtc attcacgcca 1920
 tggccgggtt cagcaaaacc ctcggttctt ttgctggcaa cgaggtctcc aattccgtgc 1980
 agaccactga cgcaagggca tttgtcaaag cagctgtccg ggacatgaaa gcttacatca 2040
 aagcccagaa ctacaggtct ggtcttggtg ttggatatgc taccaacgaa gtagagagta 2100
 tccgtgtgca gctggcggtc tacttcagct gtgagtccga ggaggacagt atcgacttct 2160
 ggggatacaa tatttactcc tgggtgtggag attcgacgta taccgaatcc ggggtacaagg 2220
 accgcaccga ggagtttgcg aattactccg tccccgtctt cttcgccgaa tacgggttgca 2280
 acgaagttac tccgcgcaag ttactgaga tcgaggcgct cttcggtgac aagatgaatg 2340
 gtgtttggtc tgggtggtatc gtctatatgt acttcagga ggctaatac tacgggtgcgt 2400
 tccactccac tatatccaat cctctgaaaa taaaggaata tgctaacgag cgagcgtgaa 2460
 aaggcctcgt ctctgtcgtt gacagcacca gcgtctccac aatggctgac tacaagtact 2520
 actccagcca gatcaacgct gtctccccct ccggtaccaa caaggcctcc tacaccccca 2580

ccaacacggc actccaatcc tgccccgcgc tgacatccgc ctccctggctg gcaaaggcga 2640
 cgcccttacc cccgactccg aacactgac tctgtcctg catggataag acaaacgccc 2700
 gggctgtgat gtcctcggca ctatgacgac tacggtgacc ttttaacaac aagtgcgggc 2760
 taactgaaag cgcagctgta atggcaaatt ggacgaccgc gtcctacggt gcctatggaa 2820
 tgtgccagtc gaagcagcag ctcaactggg ctctgaataa gtattactcg gagcagggca 2880
 gtgtggcttc ggcttgcgac tttgacggct cggccacaac gactgcgact acggctgcta 2940
 cgggaagttg ttcgtcaatg atgagccagg ctgggacgga cggcacgggc accgttactg 3000
 ctacggctac ggggagtggc tcttcggcga cagagacaga atcctccggt gcaaacgctt 3060
 tgaatgtcgg tgtgagcgct ggggctgggt agtttgtcgt tgctgttctc gggatattgc 3120
 tgtgaatgac gtggctggca cctgtggtag agcctgggac atgcttggtt attttgtcta 3180
 aactttcgtt catggaatta gagtcttccg ctcatgata ttgccattg tgcatttatt 3240
 tgacccaat tgatgtacct tcctttacac ctccgtttg ttcgttgtag attgagcttg 3300
 gcaaaatgta gatagtgtac cataccaaag caatgtaaag ccatgcggac cccttatctc 3360
 gatcgaatac caggatcctg ccacggcaac agttgggccc aagcctacaa acccgcgaga 3420
 cactcctgtt gtcgaatcat ccaagtcgcc tactaatcta cctacaggcg atgagagcgc 3480
 aacaccccat attgatttga atcatccttc cggtatacct cgttaacgca ccctttaatc 3540
 ctttgggaaa gtagataaag ccgcatgaag gacgacgcta tgccaaggct gttatcgtgt 3600
 gaccagtccg tcctattaat caattttaga aaactaggtg tattaatata tcttaaatgt 3660
 ttcctttaac agcaatccga tgtggtgtaa tggtaacat cgccgtctct cacacggcag 3720
 ctcggggttc gattccccgc atcggaagtg gtttcttttt ggtctttttt cttgccacct 3780
 agacaggctc gggagagggt ggttggtgtg gtggggtgca ccgccgatgc cgaatgcgga 3840
 atacatgtac gggatctagt gctcaaccac attatttcgt ggttttgccc acaaagctct 3900
 gtttccggcc ttcttgagtt tctcgtcaac tctcccttgg gactcttctg gttgttcacg 3960
 attggaagta catgcaagcc ttatcaattc tgcacttcca agcctaggtg catatctcaa 4020
 aagccgaaag aatgcatcta acgggactgg gacgctgccc tggcattcgc tatggcccag 4080
 gcccagtaa aggtagagtt gtcggccgcc agcatttacc gttcagctct gaccggtctt 4140
 gggactggtg gccagacgca agagagcaag gtcgttagat agtttaggtc gtttcttaac 4200

aggttgga aa ttgcgtccta agagacgtcg aactagata tctgatactt taatgtcaat 4260
 cttggcttcg ggtaaattccc cagtcaacgg atttatgttg ccttgatcca aagcttggat 4320
 aaattcgaaa gtatgctatt tcaggcatag ctacggagcc acttttcgac cgcattgacag 4380
 catgatttat atgctaaact cctcaaatat ttgattgctt agacgagagg tggttgcca 4440
 gctgtcaata tgggggttgc gccgtcggat tctctacccg tggagttggt gcattttgaa 4500
 gttcacataa gacagtttta tagttctgct tttttacaag gggttaatca atgagactgg 4560
 caagtaaata tgctgtcag catgaatatt ccttaatcct agaaggagat catgacaagg 4620
 cgcattgact gaacttcaat acgttaatgt ctttatggct atctctagac caaacttctc 4680
 gggcttcact ttccggtaat tcgtctgaaa tcttatgtat attacacaga gctattcgca 4740
 tactgactcg gagctacgat ctgggaagggt tgttgatgag atggggacac tgggaattgc 4800
 ctgagcctga gctatggtgg acctcttact tccacacat tgagatatct gcactataat 4860
 gtagatgaac aaatttaatc atatttcttg ttagtgctag tcttctaata cagccatcat 4920
 cagtacacgg gcaacatata gatacatcta ttgctgtaga acagacggtg agacttatta 4980
 gatactcctt ctcttcgct cctagtcacc taaacagggg attactgcca tcatgccccaa 5040
 tcaccagata cgatattaaa gccgggaatg ccaatacagc gtattcccag ggaatcccct 5100
 ggggaatggg acttctagga acgggactta tgggacctca ggggtggtccc ggtccacttg 5160
 gcttctcgca agtcagatag cacatatttc ctaaagagta cgaaaatttg cactatttgc 5220
 aacttttctt caaccccaat gatgcgctcg accctgaaaa cactcttccg aagttgtccc 5280
 ggcgcccga cgtatcgctt ccggtttccc gtggttgat ggtggggaaa agataggcga 5340
 ttcagtgggt gctgattgct gaatgaaacc agatgatgca aattggtact ctagtccagc 5400
 acatcgatcg ttcaatggga ggctcttgga atctttgggg ctattgacac ctcaaaaaag 5460
 ccgataactc tggcggctag caacaggccc agtcactata tctgggtccac tatgtcaaaag 5520
 ggctacttg gccggccaca atttttgtcc ctggcagccg caaagagaga ctttttctta 5580
 cactgttagc aaattttctt ccggggataa tgttcccttg atgttcgtga gtttcatgtc 5640
 tgtctagagt agagtgtcct tccatccaaa agatatcccg ctttctcaag atacgcctgc 5700
 catcaaacct gtcgctctag ctgaggcgtg ggcttctatg caagactatt gacaactaaa 5760
 ctagtaaaaca agcctctca gagcttgcca gttccaaggc tgaggaatta ctcttgacc 5820

acgcggcgaa cggacaactc gcttgatagg gttagcatat cgtcctgcgg atgagtctga 5880
 agatcgtgat cctgggtcgt cactggcttg tacctgactc aggcgtcatc catccgatcc 5940
 atcggcttca ctagacgcca tccgggctcg cccggcccaa aacagggccc tgttgccgag 6000
 taaaacctgc agcgtttggc ccgatatcga caccggctct ccagcccctt ggaatgggga 6060
 actctcctgt ggtctggcac ctttctggct gggccgggtg tgcgcaggca ggttttcttg 6120
 cgtgcaactt tggcgagacg acgccctata aatcaatgcc aatgttcaca agcactgggc 6180
 aggtctgtcg gtctttcgtt catcatcctt gcccagtcg ttcgtttacc gcttgtcatg 6240
 catcttgatt tggccccgtt tatagcggca gcctctgtcg gcctcgcgac cgctggcgct 6300
 gtcccgctc gtgcgagtc tataaagaca tgcgccgatg agctctggac aggcgaggtc 6360
 ctgcacctct cgtcaatat cattgagcgt cccatcatcg tcgacgtcga gctgcagcac 6420
 aacgccgtcg ttacggttga caagactatc cttattgaat gtaccaatgc ccccgctcgt 6480
 ttgtatacca ccgtttacgc cactaccaca tccaccatca ctaagaccat ttataccgct 6540
 acaatcatta gcaccacggg gcttctgcc caaactcaag ctcagtctac gaccgccgac 6600
 gtggacacca cccacaatgg tggcgtecca acggaggtca acacgcggtc tatgacctct 6660
 gtcaaccctt cgtccagtaa ctgctttcgg cacatccggc gccacgccg acggccccgt 6720
 cgccggtggc tctgcggtcg gtatcggggt caatacagat ctctacacca tcaagccact 6780
 tacacttccg gtccccgtg accagcacgc tgtacgcctc cggcaciaac acagcagtca 6840
 catacaccgc ggtcaccctt tcatecacac ccaaactcgtc gcacaagttc ggggacttca 6900
 ctgactggac caccttcaaa gccaacggcg tcaacctcgg cggttggctc gagcaagaaa 6960
 aggtcttcaa ccagtactgg tggaaaccagt acgtccaga agccgaagat gaatggacct 7020
 tctgtgagac cctgggctca gaatgcgggc ctgtcctcga agagcgatat gcgaacttcg 7080
 tcaccacagc ggacatcgac cgtctcgtg ccgtcggcgt caacatcctc cgcacccca 7140
 ccacctacgc ggcttagatt aaggtcctg gctcgcagct tcacagcgga aaccaaaagg 7200
 agtacctgcg caagattgcc gtctacgga ttgagcgta caacatgcgc atcattgtcg 7260
 gcctacactc cctcccagggt ggcgtgacag ccttgacatt ggcgagaacg tcggcaacga 7320
 cggctgggtc ttttaacagca aaaacctgc tactcgatt aaagccgcca aaaaa 7375

<210> 5904

<211> 9938
 <212> DNA
 <213> Aspergillus nidulans
 <400> 5904

```

cttctgatgt tgtctctgag ctgcacctca tagtcaaatt tctcctcaag ttcgtgatct 60
agattaagca tctggagata tttattgatt gcgccaattg tctctgcgcc cgccccccca 120
gcaacgggcg cattgaggct gtgtccaca aatccattgt tggcaccatt ggcaactcct 180
aaggcccttg gttattatac tgggttgaaa tcggaccgcc aatgcactat aatccatata 240
attgactcgg cacgctttcc cttgtcaggc gagcgatgcc atgagtcata atctttactg 300
tgaatgcctg tcgtgttagc gttgccatgg cattgccttc gaggattcat gaggccatgg 360
atgacataga taagctgatt acggtgggga caggagtatt gatctcagtt taatctgggt 420
ttgtttggac gtggaatcg tttcgtacc ttcattctcg tttcgatttc caaactagga 480
gatacacgca ttattgcaat cgctgtggct tattgctggg gaatatttgt gcagtttgct 540
ctttgtattc tgcattcttg cgccaccttt gcttagctct gtggtgaacc ccagcctata 600
tagttcatct gaaatttggg gtgcttggtt cgttgctgac agtacctact aatatgtacg 660
tattgagggg ttggtctaaa cgctgttca gattcctctc attacacagc aggaatcatt 720
cgtcctaagg gttccagatc atgcacctca atctaaatgc cccaaagccg gaataggaag 780
gtgcccactg tgcgagatcc atctctaccg acttggtttc ttcaaagccc atctcggtaa 840
agaatgcgta ggcttgccgc tctgaggata cggcgacagg tacaccagca gcctttgctt 900
tggcaaagac atgccgaacc aaatctcggc ctatacctcg acgacggaag gcatgatcca 960
cggcaatgta taccacctct gcttcataat cagcaccagt ccaaataac acaggcattg 1020
gacaaaactac cataatgctc cctcgtctct agaccggtaa aggaaagttc gcgcactgcg 1080
ttcatcacag cattgtagac ctctggattg aaatgatctg gaatattcat ctgcttctcg 1140
gggcatcaa cactgggact ggcggcctgc gtatgaagtt caggttgtct gcgacaaaagg 1200
gcgataaagc cgataagctt tccagaggcg ttgtcgatta cacctaacct ttctcggtcg 1260
tcgctttcga aatcctgatt ctctagagca gccgatagt tgcgtctttg tgctgcttca 1320
ttgggccagt ccttgaacaa gagtctggtt attgtcaatg aaagcttggg ggtgaaaagg 1380
agttcttcca gtgcatctag gtcagagcgt tccacttggc ggaatgtata gaggggactt 1440

```

ggagtgggag ccattggtgc tgttgttcct cgtgttgctg gctgttaatc acttccagat 1500
 cccagctagt ataacttgcg tgcaaagggtg gtttcagtat gctcaggcta cagtacttat 1560
 gcttcggcac ttatgccgct gccttcgtgc aggttccgaa attcgacta ggtagatatt 1620
 ttgataccta ctacacgcca gacgatgggt cggatgcagc cgctccttgg gctaaaatga 1680
 cgccttcccc gtcaacaatg agagacgata tgattacgag ggtgagttat gttgaatgtt 1740
 ttggtcatca agtgcggtg atacgcagg aacgtaaaat gctgcgaata gcccgatggg 1800
 gagcgcttgg gtgcaggaat agatttagtg gctacaggtg accggccccg ttatactgac 1860
 tctatttgcg ctttcattga acctttgatg caaaactacc aaaaactact ttgaaacctg 1920
 atgggcatcg gcaagcccaa cttgagttga atgtagtaga taatttgta acttttaca 1980
 taagaagcat cattggtcta gtggtagaat tcatcggtgc catcgatgag gcccggttgc 2040
 gattcacgga tgatgcactt acattttcat cttgatatgc tttggccaat tgcactaatg 2100
 acacccgata attacctttt gcttgtgtgg atgcagtgtg acgcgaggtg taatacagtt 2160
 gatattggat atggtactgt ttctgtttcc caaacttctt ttcttttttg ttctctttca 2220
 gcttaccttt ttagttgaat gtgcctacg gcccggtct gagagccagg agaagtgcc 2280
 gagatatata tattcaggag tcgcctcatg gaacctactc agaacacatc tgttgaatcc 2340
 atgttagcac attcattcat ctaggtgaac agccattata cctcttacat gctcggatat 2400
 gctggaatat gcatcaacgc ataccagtat cctgaatcta tcgttgggag agcccatgat 2460
 aggagccccg tagaagcctt ggacattgtc acctgcaagc gggccttcag ttcgcactga 2520
 acgtaggctt gaacccatcc atagggaaag agcgatgggc caaacctgga atgccgatat 2580
 tccttcaggt cctagaagca gacagcgatt gtgcgtgctc aatgttgtca caagttaaaa 2640
 tggcatgttc agtaggtagc cagtgcctga gattcttcac ctcgccatct ccacgccagc 2700
 aactgaaacg aactccgtcc gcacaggaac ggaaggaacc ttggatgtac gttcacattg 2760
 gcgtgggtta cttgaggcta taacgaaaat gggcagatgt agtgacaaac ttgcattagg 2820
 gtagtcatga gaatgttgca ttagattcag aaatagctaa tctgggcgtc actttcatca 2880
 aattatcatc cctgctggcg gtttggttac actatgcaa taggtagccg ctgtatccgt 2940
 acagaggaat ggattggcaa aggcgtggcg tattcaaacc gttaccaag gcagttgtag 3000
 cggagtaggc aagtcactac ctagcacagg ctccgcagtt ccgatatccc tgctatagtt 3060

agcgagactg ctctggaaaa tatatatttg gagatgttta ccaggacccc gtggtgcccc 3120
 atattcgcca gttttgctaa tgtcgaactt gtcaacgaac ccggccagtg accttgccagc 3180
 ctcatctggg gtgacagctg ggtagagttt tagcactgtc gatatcgtga ttaaacaatgt 3240
 cgcgggctca cctccaccag catcccagta cttgtcgtac ccaacaccct tcgtcatctc 3300
 cgtccgcata aatcctggat gtaccaaacc cacggctatg ccattcggct tcaaatacaa 3360
 gctcagcagc ttcccaacca tattaagcgc cgccttgctg gcatggtggc catagttgcc 3420
 gccgccctct ttttcatggc gtagcgtgat gctgccactc tcaactgtca cgagaatgac 3480
 cttgcttctt ttacccaaaa tcccacactt aaccagtttc tggacaacga agactggtgc 3540
 gattgcggaa gtagtgtaca tctgtatctg cttgtcccaa tcgggggtgt cgaacgtctc 3600
 gaggccaaag tagccggcgg tgatgatcac tgctgcgagc ttggttgacg aaggaggattg 3660
 cgagaccaat ctctccccaa catctggctt cgtgaggtcg atatttggtg gccaggaaac 3720
 gtgaggatgg gagtaggact cgggtgcgtt gtcggatcgg gttgttgcca agactcgagt 3780
 cgatggctcg gttgcgtaga ggttgccgag ggaggcgccc aaaccctcg tggccccgac 3840
 aataaggatg ttcttctca tgttgattac gtccgttttt ataccactaa cagattgggtt 3900
 attgagaggg atgcggaagg gtggtgttta tgaatggata gaggttgacg caagtgcatt 3960
 gacgtatgct agtttatccc gcaatctttg gtaactgcca tcgcatcgc ctgtggctga 4020
 atcggtacct tgatgcaaga gcctttccct gttgaagcac aaatagataa gctatctgaa 4080
 aagacagcaa acttactatc gagatcactg cataactaat gcgtcgcttc tactttcgag 4140
 aggttacgac agcggcgctg ggtcattgtt ccctgggttt ccagcgaagt gccaacatg 4200
 agataggcaa ctgtgcctag ccactatgaa aggatatcaa ttctaacaac cagccaatta 4260
 ccgcttcacg tgagacccat ctggaagtga accgaatggg cgaaatgacc ggactggca 4320
 gcctcgggca gccatttctt aaccgtcttt ggcatagctt ataagcatct acgttcaactg 4380
 tttccatatc atcccaccat gcataccggg tgataaaaaa tttgatagga gcccgatctc 4440
 tcggaaggcc cacagtcagc gcttcacacg gcagcagaaa aaaagtgtct tgccgggtcc 4500
 tctcatccca tacaggcact cggtagccgt gcgcgagttt ccaagcagtt acggatccac 4560
 tgcccgtac cagctgcccc gagcaccggg tacggcgtga gtgttgaacg tgaacacgag 4620
 gaaaaataca ggggtgcgcc tgcgagatca ttactgtaat tcacaaacca gatgcaatca 4680

ttcgaaacag ggctgtgatt ttgtagatta tccttgccca tccttggttt ctttttttac 4740
 cctccatccg gcaaacgctc ttaccgcggc tgttcaacgc ctctaccttc atggatcgag 4800
 tcaactccac cgcttcatct ttcaaggctg atcaagagcg cttcttgga cgaacctaag 4860
 agaagagtca taagatcttg ttcgccccaa aagtctccca ggacgggaaa cacatcgctc 4920
 attcactgtt cagagcacia aactcaagat tatctgataa gattatcaga ttgacaagcg 4980
 tgctcgggca gatccacttt ggcgactata tgaaattcga cgacattttg ttacggcatc 5040
 tttaaagatc attggtcgat acctgattca agacaaatat gatacatgcg cactcggacg 5100
 cccacgcgac cagtctcgca ctctcatccc acgcggcacg atcggacagt tgaaccagca 5160
 cgagaaacaa gcatccgact tcggggcctg tgcactatcg acctacgcc actttatctg 5220
 gctttaactt tcgcgatgac ttggtctctg tctttttcca tgccttcaac cacaatcaga 5280
 cgctatgggt gttcatcctc taatccgtag gactcgtacg gtccttcgct gcattgacg 5340
 ggataagacc gaaggacag agagtgatat catcgagcag agctcaagct acggcagcgc 5400
 tggaccgcaa gagaagacac caaccctaa caccagcat ggtgttcaag atgctgaggc 5460
 cgtgactctc agttggtcga agggcactct gatcgagtt ttcattcaagt atgtttctct 5520
 ttttctttcc ctgtcatttt tgcggtgatc gattttggct taataatata tcccatagc 5580
 atctggttct tatactttgt aaatgcgttc cagatctctg tgaccagcag cttgaatcca 5640
 tacgtgacca gttcattcaa tgcacactcg ctatctgcac taccgacagc cattggcgat 5700
 gcatttgccg ctgcgacata tcttcccatg gcgaaactga tggatgtatg gggacgtgca 5760
 gaaggctttt tattcatggg catttgctg actattgggc tggacttat ggcgtcctgc 5820
 aatgcctttg agacctactg cgccgccaat gtaagtcgcc gcaaacaatc cttgaggaaa 5880
 gcaagtccta attgcttagg tgttctacta cgttggcttt tatggtatgg aatatgccgt 5940
 cgatgtcgtg acggccgatg cttcgagttt gaggaatcgt gcttttgct atgcattcac 6000
 gtctctcct tacattatta cagcctttgc agggccaaaa gtggcaaagg acttttatta 6060
 tcaagtttct tggcgatggg gctttggctg ttgggcaatt gctactcca taattgcact 6120
 gcctctatac ggtatgctaa agtataactt gcataaggct cagcaagaag ggtactgtat 6180
 cagaagaccg agtggccgca cggctactga aagcatccga cactggtctg ttgagtttga 6240
 ctgtgcgtat catccttttg ccgaaatatc cttgtctgaa gcataaggct aatttgatgc 6300

ttccagtggt tgggagtggt catatttact gcaggccttg tattgttcca gctacctttt 6360
 gacattgccg attatgcacc tgaaggctgg gcctcagact acatcatcgc catgctagtt 6420
 gttggcttct caatgctggt cttttttgca atctgggaaa agtggcttgc gccagttcct 6480
 ctcttcgagt ggcgtctgct taccaaccgc accatcatag gtgctgtact cctggacgca 6540
 acttaccagc tctcaaaacta ctgctggagc tactacttca cttcctggct gcaagtcaac 6600
 aataacctaa ctatcgcgac agcaaaactac atcaacaaca tctttgatgt tgtctctggc 6660
 gtactactgc tgttcctcgg ctgggtgatc cgccgagttg gcaagtacaa gtggacttta 6720
 tacatctcca tcccacttta tatcttcacc caagggtca tgattcattt ccgcaaacc 6780
 aatatgagcg tcggttatca agtgatgtgc cagattttcc ttgcaattgc tggctcagtt 6840
 ttcatectcg ttgaacagat tgctattctt gctgccgtag atcaccagca tgttgccacc 6900
 gtattggcca ttctgaacgt tgttgggact attgggaatt ctgctgggtt gaccatcagc 6960
 acatctatct ggcaacacac ataccggaac gctcttattc ggtatcttcc tgagtcggcc 7020
 atgtctaact tcagcagcat ctacgatgat ctcagaacgc agatagggtta cccagtaggc 7080
 agcccatca ggacggccat ccagatggcc tacgcctatg ctgaactcag actacttgct 7140
 gttggctgcg gcattatgat gcttgcgatt ccttgggtga tccttattag ggatatcgat 7200
 ttaaagagga agatgcaggt caagggcact gtgctttgag ctgcagggtat agtgctgttc 7260
 tctggtagaa ttattcgtag ttatgggtgt ttagcgtaaa taaacgcggc ttatatgtca 7320
 tccatcgat atatagtttc aaccattttt cagcatctga aataggaaga tgccggggta 7380
 ttatgaacgg tacacgagaa agaaccgtca gtattattgc cccgcctaga gtctgagtac 7440
 acaagatccg aaatcggaca aagcatggtc cttaaagga ataagggccg ccctaaacag 7500
 acatgccatg cgagctcgag tgggttcttg accagaaccg tgccccactg tctgggtacc 7560
 tactaacatc catgaacggt gcatcactct cttccttcat tgccttgct cgcgcttacg 7620
 tcggccccgc ggaaccctac atacgtagct acctataact cacggcttct gttcacctct 7680
 cttgatcatc cccgcagacc tccaatacct agcttgatgg ccctaccgc agagctgcaa 7740
 caacacaacc atggacgacc ccgaacaaga caagatcgt gactcgaacc tcgttgagca 7800
 cccgctgga ctcatctacg acgataacga gagtgttaga gctggatctc ttgcagcact 7860
 ggtggaacat cttactcatc caaacaagct agatgcatct ttcaacagaa tatttctcac 7920

gacatataca tactttcactt cagggacgga acttgtccag ctgctcatta ggaggtatga 7980
ttgcgccccg cctgtcaatc taaaccaat gaaagcagca gaatggtcaa gtcaggcaaa 8040
gcccttgatt caggtacggg tggttgatac cctaaatcaa tggctcgaaa atttctggac 8100
atggaatgag ccgaaaggcc ctgaaacgca tgagaatctc ctaaatctcc agtcattcgt 8160
tagggccctc gcgtcaagta cacagcagca gaagcttcat gaaatgacct attgccgact 8220
tgtgggcctc gagccagagg gcatgaggag gccgcgttcc cagccatcat ctatcgcaac 8280
gtccagctca agctcaaccg cccccaagcc aatcctgcc aaggaatga aaccgaataa 8340
gcttcaatth ctcaaaattg atgccagaga gatcgcgcg caactaacc taatggaatc 8400
atgcatctth ggtaaagtac agcctaata actcatgcat aaaaactggc aaaggaggga 8460
gagccaagac gtggctccca atgtcagagc cctaattcaa ttcttcaatc agctctctgg 8520
ttgggttga gccctagtac ttgcagaatc ggacttgaaa ccgcggacgc aggttatagg 8580
gcacttcatt aatgtcgcca atgtatgac gtctctacaa aagttggatc ttagactgac 8640
acggtaccta acaggcatgt catgaccttc agaactactc agctgttgtc tccatattgt 8700
caggtctgca gagtgcacct gtgtaccggc ttggtcgaac ttgggcaatg gtcacacagc 8760
gtgactgcca caaacttgaa ccattacaag ctatgatgac gagcgaacaa aaccatcaga 8820
cttatcgga tatectgagg cgcgcaatac cgccatgat ccttttcttg gttagtatta 8880
ttcactagtt ccgggtcttg caattttacg aaccgcccac gtagtaggta ctgatcgtga 8940
tctcgtcttg caggcatatt cctaaaagac ctagtcttca tcgaagatgg aaatccggaa 9000
ctaacgccag atgaacgact gatcaatttc tccagatact ccatggatgg catccaccat 9060
cgataccgtt cagcactttc aagaagcgat gtactgttta cagcccgtac cagagctgca 9120
ggaatacctc gcgacggagc tgcaacgcgc ggttaattcg gagaggctgt gggacagaag 9180
ctgtgagctg gagccgaggg gtcggtggga taggaaaaga gagcgagata cgtatactgc 9240
cacagggggg atgacaactg ccatggttgt tgcttgcacg gtatttgatt gatagccgta 9300
gattccggca ggatttatct aaggtttttg agatatgtga cctcttgaat tggaccagaa 9360
agagaaaaag aactagcagt caaatatgta cacactgata tttagagaga acttgtgata 9420
agcaaaaaaa gtttgaccga cgcagggtc gaacctgcaa tctcctgatt cgtagtcaga 9480
cgccttgcca attgggccag ccggcctgtt atctatgctc tagaatagaa aaatgatact 9540

ataagccact aatcaataaa tattaatctt ttacaaattg agatcaaaaa agctagccgt 9600
 aagcaggcgg tcggcagatg aagggggcca gcatgacgaa aacaggatta tgaggcgtcg 9660
 gcaaggccca gccttttagtt ttggaatttg acgtattaat ccatccatct ccatctcaat 9720
 gttcgctcgc tagcagctgg ggctgtctac ggagtcctta tgcttgctg cacaagtcga 9780
 tgatgagttc acttctgcac gctctctcat cccatgtgaa aagagcccg cttccaaaa 9840
 taagccagca ggcagatcat aatgtcaata atgctgaaac ctatccatgg gaagcgtgca 9900
 accaccatta ggcatagggt gtttcgggt tcttcccg 9938

<210> 5905
 <211> 12718
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5905
 accttaggta tcttcaatca aaccagactg taaagatgcc ttcttctctc acttcttaaa 60
 gactcaaccg accatcaggt taaacatccc acttcctcc ctcgcttcga ctgcccactc 120
 tactccttcg ccttcaactct cctccttagc caccttgacc caaaactctc ccttcaccgg 180
 gcacatccca gaagcaatag ccattgagtt tttctccggt gctttccagg ccccgctatc 240
 cacaggagtc agatcaatcc tcaagatcac catggccaca agagccaaaa tctccgaaga 300
 ggcaaaatgt cgtcctggac agatagtcgg tgagacgccg aagctcataa agccgcctgt 360
 ccggcgggga ctcgtgctgc catggggggg ggtttgcctc atataccgctc tcggattgaa 420
 ctactcgtc gattcagggc cccaaacgga ttcagtcgca ccaattgctg aggcaggaat 480
 gtcaccacc ccgctcttct tgaggaaata tctgttgta agcactgtgt cctccgtgac 540
 cacgcgcgta acagccgaga cagaccgagt ccgcaggatc tcttgatacg ctgacactaa 600
 gagagggcat gagtcgcgga gcgccgagat atcgattata cgcttcctcc ccataggcgt 660
 ctgctatttc tcaacgcgaa ccgcatgttt catcacctcc cttctgatct cacacagcaa 720
 actcggcctg gaatacagat caaagagaac ccagaatgcg gcggggacgg tgtttgagag 780
 caggcccagt cccatagaga cttcggcgcg cgcgatatct gtatctgaaa ggctccagc 840
 gtgcatgaca cgataccggg tctttgtgag ttccgagcct tgctcatggc cttttgtttg 900
 gaagtacgct agaactgcgg cgaaagtgtg ttcgcgcgcc ctgtacgcct ttcgcgccat 960

gatggaggga aagacccctg ttatcagcgg ggcgatgttc gtttcgaagg tccagaatgc	1020
atccgcgatt gccgagtcct tgtacgggtt cttcggggccg tatgaggcat ttgtgcttgc	1080
ggccgtgatt gcacgtgtac accacgcata cagatcaact gtttgagggc tcgctacaag	1140
ctcatccacg agcggggetca gcattctcgc catctectca ttcatgcgat ctaatgacgg	1200
cccgataagc gtctttttcca ttgcgtgcac tgtccctgca cttagtcccc caccaccggc	1260
ttccctgtcg cggagaagac tcatcccaga ctcagggatt ccggcaaaac gctctgcagt	1320
gaagttgacg agaggcgga atttgagtgt tcttttggtg cgctggactg cctgcatcag	1380
ggacggggag gtgacaatgt attgcttggt ggtgaggagg ttgatcgtga agatcgggtg	1440
ggaggagttt tccgccctgt ttcctcaggt tagtacgaag tacgtagaga ggaacgagag	1500
gaagcagaag gacgtagggg ggtcgcaggt gcatacgaa ttcgactgaa atatcccata	1560
ccatggcgca tcaaaccgag gatgtgaccg atgatgggaa tcttgctgtg cacttccggt	1620
ggctcacgag gatcgaggcc gcgttgactt aggatgtatc ctatagccgt tatcgcaccg	1680
agaatgagga gatggaatgg ctcgagcatg ctgatgaaga cagagctggg actctgtatg	1740
gggtccactc ccagtgaana taggtagccg gttgggcctg agcgatgcag gctaatacga	1800
ccaaaagtct cgcgatatgg tcggctaagg atttaacgag acttaagata tgatagtgat	1860
gagaaaaaaa agaaaagtaa atgcaaaatt cagggacagt caagtcaatg caagatcttc	1920
gatttagcct aggtttgttc tagccctact tccgtgaggc tgggattcct tcagctgggc	1980
cccttctgtg gggggcgga gtctcgattt gtcaatggcg cctctaaccg gtaacatttg	2040
gctcaatgaa aatgtgacat gtggagtgt gaaggtatct cccagagtt cgcattgaag	2100
ttcatttgcg aggctatctg cagtgtgat agccagcatc taccagagat tttgggggtt	2160
ggggtggggg tgcctaaata aaagtaggaa aaaaataagt aaaataaaaa gccgccaccg	2220
cagcagtttg gtctccctgt gcggcttcag caagttgggc aatcctctga aacagcgata	2280
tttcagtaca atataccggc aacttggtag atccaccaag agtttgctag taggaagatt	2340
ggtaagaact atggtagaaa taatggagga tgaagatcga cagatgcctt tgtatgtgcc	2400
gcacagcttg gcttctgctc attgcatttt tattccttca ccgacaggtc aagtatgggt	2460
cttgctcgcg gtgagcattg ccgactccat gggcggcaaa tatggaatgg gaatattttt	2520
ttttttgatt ttcttttttg atatgcttgc agcctgggtg ggatgatgac ggtctggagc	2580

ctgagggaaa accagaattg atatggtcta gggcttgttg cgcgcgggca tggtaaagaa 2640
 tgcttagact agtagcagat ccaagaagga catcgcttgt cgaggtgtaa gacctataag 2700
 gttgtctcga gcgatgaagg aggagcatag ataatatcca ttctgttggc tcgtgacatc 2760
 tcatgtttgt tttctctctg acagtgcgca aacttttgac aatatgtgag aagggatctc 2820
 aaacctcgat agggagacca tatcttttga ctcttccccg ctcacgactt ggtcctgcgt 2880
 agtacaactc ttgaccaact tgctacgctg accgaagcgt atcgaggctc aagaactggt 2940
 caaagtcag ctcttgagct tctgacatat cggcaaccaa cccttccagc agcggcattt 3000
 caccagatt tggactcggc cgcggcagag cgggctgcat cccatcgctc gctgccctgc 3060
 caggttcgag ctcggtcccc ggctgcccac tcgcatcaag cacgctggtc agtagccgga 3120
 catcgcgga ccgcccgtgc tgatagacga agaccaggaa cctcgccgtc gtataggcct 3180
 cacgcatggt ggggtgtgtt tatatcgaag cgaccatttt cacagtctgt acggcctcgg 3240
 gaaggagttc gagtgatgag cgggtatcca tttccagaag gatggtgatg atgtggaagg 3300
 ggacgttggc gatgtgctgc cacggacagg caggctgtga gcatgctgcg tgccgactgg 3360
 agcgtctggt ggaagaggga gaggatgcgg tccggcaggg caggagatgt actgatgttg 3420
 aggaggttga ggccgcaa gatacagagg accaggttcg tctgggagag gatagagggc 3480
 ggctgtgtgt gggtcgggtc gagggctctg aggagggact ggtgtaggtg gacgtcgctg 3540
 tctccgtccg catcggtttc ctccggatca aggcgggctg atataggcag caggccaagg 3600
 agttcgccg tgtagtctcc tggcttggat cggacgtctg tgaactgcat caagtcggcc 3660
 ttgacctgca ctctggacag cccaatgtcg taggaaggcc acatgttctg gtgcagggca 3720
 acaccacca agcgcggcg gatgtctgga tcataggcag tgctgggatt ctcatgctgg 3780
 agacctgcg cctcgatgag atgcattatc gtcgaactag cgagccatgt tgagtacggc 3840
 gctgcagtca tccgcatata gacaacatgc agtaccagc cagtgatcag atcaagagag 3900
 ggcggtgcat atccatcgta gctttccagg atagactttg cattctcgat tagctgtagc 3960
 tctgtgcac tggcggaccg ttcagagaac aacagcccca gcgccccac gcctgcaagg 4020
 aactatcgt agataccact tcggccacta ccactagacg accaccgtgc atcgagacgc 4080
 tgtaagaaca cctgccggtc aataaacca tagcacgggt cgaccttga aaagtaaatac 4140
 tcagccaact gtctcatgct gccagcggg acaaggctga caaggggcag cccagcagga 4200

gcaggcacca gccagacga caggcggcgc gcaccgacat tccaggcgaa aagattcacg 4260
cgcggcgcgc tgggcgggatc gaccttgagg cccatcttgc gcacgaagac ggcgctcgag 4320
ttggccgtga gaccgcgcgc caccgcgtgc ggatcaacgg ccagacgatg gctgtctccg 4380
ccgagcccag agccgccacg cggcategcc taggagacgc cccggcattg tgcttagagc 4440
tccggccggc tgcgtagtag cagtcgtage cccagtcctt gcatgtctcg cagggggcgg 4500
cgccatcgca tttcctcttc cgactacggc agggctcgca ggcaacgcgg gcgcgcttgc 4560
gtttaagcgg gactgaggtc atcctaacct atccacagga ggactgaagg ccgcagttgg 4620
taacgggatg tgcggcagat gagccgacag atcccctacc atgcagttat gcagtcatgc 4680
aatcagccag ccagtgggta cgtgtcagca tgcgctgact acagggccca caggaccgcg 4740
aagtcccgca ataccgcga taccgcgtac tatgtgagaa cgaaatataa atcaccgtga 4800
cccggaatca tatagcatct gctttatcct taacttttga tattctgcta attcaagaag 4860
acaggttgta agagctggta cgatgactct ttctgatgcg cagcaagaat gggctccaac 4920
tgagaaatgc tcaatcgggg caggaaagcc atttctcca gcactttcag ttaaaaagcg 4980
ctacactggc cgactttgaa ggaccggatg atcccatgca tctcaaaat gggccgttga 5040
cattcaagta cgttacctga ggggcccaac ggggtgcccc ctaacttgat gttgctggat 5100
aactagactt atatcctcga taatggcctg ctcaggtaga ttgatgcct cctgaacag 5160
cgccatcttc tcgaccgcag ccgaccaggc cagccgtgac ttcgatgtag gaagggaagt 5220
gattagtctc gggaccgctc tctttgtctt gggcttcgcc acagggtccag tattctgggc 5280
gcccattgct gagcttacag gcaggaaact gccgctgggt atcgccattc tcagtgaagg 5340
gatcttcact gtcggctgtg cagctgcaca ggaggtccag accctgatca tctgccgctt 5400
ttttgctggg gtatgcggcg cgagccaact gaccgtggtc ccgggcgtgc tcgccgatct 5460
ttacaacaac gccaccgtg gcgtcgcaat cgggctgtat gcgttgacgg tattcggggg 5520
cccatttatt gcccctattg ctggcgggtt catggcgta ggtcatctcg gctggagatg 5580
gacactgtac atcccagcca ttctggcctt agccattggc gcgctttcca ttctcttctt 5640
aaaggagacg taccctcctt gtatccttgc tgtcaaggca tctggcattc gaaagaagag 5700
accagaaaac tgggccattc atgcagaaca ggaaacggtc gagctggata tcgccgttct 5760
ggtcgaaaag tacttcaatc gcccgctgcg cctgctcgtc accgagccca tgttgcttct 5820

tatatcgttg	tacatgtcct	ttatctacgg	tttggctctat	gccttactcc	aggcctttcc	5880
gtacgtattc	gagcacatcc	atggtctaca	cccggggctg	gctgggctca	tgttcgtcgg	5940
gctaataatc	ggcgtcgtcc	tggccctctg	ctttatcctt	tcccagcaag	cccagtatgc	6000
aaaagcactg	gcggagaatg	gaaatgtgcc	cgttcccgaa	tggcgactgc	gtccagccat	6060
gctgggggct	ccgatatttg	cccttgggtct	gttctggtaa	gcttttttga	ctgtccatct	6120
atgcctccac	ccacgcattc	ctatatccct	aatcgacttt	ggcattaagg	ttcggctgga	6180
ctggcttcac	ccctcgaatc	caactgggccc	caccagcagc	cgctgggatac	cctattggct	6240
tcggcattct	ttgcatatct	ttcccgtgct	tcaactacct	tgttgatgcc	tatttaccgg	6300
tgtaggtctt	cccccaacgc	tcaaaaaaca	aacagccatc	tgatattact	acagggccgc	6360
ctctgccgtc	gctgcgaaca	tcactcctccg	gtcagccttt	gcatccggct	ttcctctctt	6420
tactcggcag	atgttcgaga	ctatgggggt	gcagtgggca	gccaccctgc	ttggctgctt	6480
agctacagta	ctcgtcccaa	ttccgttcgt	ctttaaggcc	cttgggcccgc	gactaaggcg	6540
gactgcaggc	tgaagcttcc	atggataggt	tgtgccatca	tacttatcta	atcgggactg	6600
cctcaatagt	atacgcgagg	tacaagtaat	atagggggcg	ttatgtgctt	ggtcacttgt	6660
atataactgt	ccgcatggaa	tagttccaca	cgtacttggt	tcgagataca	tatctgtatt	6720
taacagtgtg	gtattcctgg	atacagaggt	atgcctcggg	ctagggagta	aacatcaaga	6780
agtggcagag	gggtggacact	aaacagaaac	tacatggggc	acaggtccca	agcactatac	6840
gcaaacatgg	atacgccttt	tgcaatgttt	ggatagcggg	cctggaaaat	tactgccttc	6900
tattcttgaa	gcactgttct	tctgaggtaa	ctttgtctct	agtgttctgc	cgcgggtaga	6960
ctacaggttt	ttcctttgct	atatacgtc	agctcctcca	ttggcaatca	gatacaaggg	7020
cagaaactct	aacggtcctg	cgtgatcgaa	aatgtatagc	ttggtggaat	cttagtaagg	7080
ctaaatccaa	gctattttatt	ctttggcacc	taatacggag	tagaaaggca	cctgcatacc	7140
taagtatgtt	gaacgctttt	gatgaacggc	gatagtggcc	agagtagagc	tcgtttaagg	7200
ctttaaggaa	taacttcaca	aagtataact	agctatgggc	atgaagactc	agctctgtct	7260
cataaagctc	gcatttgaca	agccgcatac	ctacgctatt	cataagatac	tatgtacaat	7320
acagttgaaa	atctttatat	tatacaaatc	aactataaag	agtggataac	tagggatgct	7380
gaatacaagt	tcaaagaagt	aagaagtaaa	aatttataat	agattcccag	gtttagaagc	7440

tggaattggt	caaggcaaac	ctgatataca	aattgcattg	actgatcact	atagtatatg	7500
agatgaaaag	tacccagcca	atcataaaca	tccaaattga	ttatatactt	ggtagagtta	7560
tgtactactg	accgtgtaag	gtctattcta	gaatggctca	ttagaagtcc	actattagaa	7620
attgaagctc	cgaaatctac	cggctttctt	accagatacc	ccgtcccgga	agacctacgt	7680
ggcgttagcc	cgaagaaaat	cattccttac	aatccctcta	ctttcaagac	gagatccgtc	7740
tcgatcgaca	gggcttttgg	ggcaagacat	atgtcgctgt	tcgtcctggc	gctattaaga	7800
acttaccttg	aacgcaggcc	gggtgttgcca	ccggcgggtg	aagatatccg	cccaatcaag	7860
atagattgca	tcaacctggc	agacagtagt	tatggaaccg	acagtttatt	ggtataggat	7920
ctgcaagtga	gacagtggag	gtgtattaca	tgggaccgca	aataatcttg	aaacgtcatt	7980
gagataagta	gatatgtctt	cggaaacaac	agaaaaatcc	aagatcacga	tatccaacaa	8040
gcaggagggg	ttgtatcagt	tcttacacct	ggcgaaccaa	atactgtgac	ggagtatatc	8100
gtgcaaaaat	cccagacaaa	taggcaaaat	atgattgggc	acattatgag	atgggcattg	8160
ccagcctagc	tatacacacg	gaatcctcta	cggcgtttta	acagtgagtg	gggaatcagt	8220
tggccaagca	cctgagatgt	ctctcagtta	aatacgttga	aatagattta	cggagctaata	8280
agttggttcg	gtatggcaat	ttttatctct	aagctattat	aaaacaatag	agtccttaaa	8340
gtcgccgacc	accagccgac	caaatccgtt	caacagctgt	cacagagcgc	tgcttggcta	8400
gccttgtttc	tgacgttact	gagccgaccg	gcaattctgg	aaaagagtcc	tggttaaggc	8460
gctgaaaaag	gcgacaaggc	tgtaattata	agcactactt	tcagatgggtg	tacggaaaagg	8520
gatacaaagc	ggatttcatg	caggccagct	gaaataaaca	gttacgtaga	tcaagcctga	8580
acaggagatt	aaggacacca	tttgttggat	tttcagtaac	tagaactgta	actagcacat	8640
gtgtatactt	cgtttctgtc	aggctattac	tttatctgta	agctgcactt	cagcttgcaa	8700
ttatcttagc	atagatggaa	aaattcgctc	ctttcgtagt	caatatttgt	caagatactt	8760
tctaccgtac	gttacagcat	atgcacataa	aacaaaaaat	tatggctcgc	ttatttttaa	8820
cagtattcct	actctttcta	catgatacaa	cttccgttga	ttattccctt	gcgctaaata	8880
gaattgaatt	agaagtggcg	aaaacagtat	ctccaaattt	cctgacatac	cccgcgcttc	8940
ttaaaaggac	tggtatcaca	ttcttttttg	tgccatttct	tagaagccat	gactagggct	9000
taaggaaaca	gagaatgctt	aactagcagg	tgcaaagcgt	ggtaagtctc	gttcaatcat	9060

aagttttcac tacagcccat tatgagaatt attgtaatat agcgtaagac catggtcgca 9120
gaataagaca gatcataagt tacttgactt atcctgtaaa agtaatactt tcaatatcag 9180
taaggagaac aaaatgctgg cagggtattg cgccagtata acgcccttaa acaccaagtt 9240
tcgcctaate tgtaaaccga accatcttct tcacgccctc cctgatctct cacaatgtct 9300
cctgcatcct taacttcatg aatcaacca actgatgcc cagcatacgt cgccagcctc 9360
ccattggggc cccatccggc atcccccaac tgcaaagtct cgtcgtggcg cttcttcaat 9420
tcctcaaagg ccgtgccagc ccgatactca acaaacgatt gattgatgat cgtccgcgga 9480
ctatattcct ccggccacgt ggtgatccca cgcagatgat tatacagcag cgtccgcgtg 9540
gtgctgacag cgccatcgtc agcgcgcaga atctcatgtt ggtagccaga actgatgcgc 9600
gcttcggtag cagcgagaaa tcttgteccc agcacgatcc cagatgcacc cagacagagc 9660
gcggcagatg cgccccgggt atctgcaatg cccccggccg ccaggagcgg gatttctggt 9720
gtctggcttg cggccactgc atcggtgcc tcaggagca acgaaaccag accgaggccg 9780
tcacttgccc ggccatgccc gccggcctcg ctgccttgca cgacaatggc gtctggccca 9840
tcgcgtgtgc ttgtgcttg ccccatggta aggagacgtt tgacctcgt caatgtccca 9900
acctggatcc agatctgcga gttgggcgat acatcccga gcgtgttcga ccagatggtt 9960
aagtctgtga attccttcgg agcgaacagc cacacaacgc agggcttgaa ctctctgact 10020
gcatgcgtcg cgggtgccag atcgtcgtc caaacctgga aaccaacacc aacgggcaaa 10080
gtctttaggg ttggtcctag cgaggcgagc cttgaattct tgatcagcgt cgaggcttct 10140
tcaaggtcgc ttagcatgtt tgctgttttg acgcccgggc cgatgaagcc tagccctccg 10200
gccgtggagg ctgcaacagc gagcttgggg cctgccatga cccgcatcgg ggcgctgact 10260
attagcggaa cagcgccca ggggaattga gcagcaagtt tgctgaggga tgtggacatt 10320
atgtgtccaa tgtttcgaga gttaagaaaa ggtgagtttt accccttaga cgatgaaaaa 10380
agtgtggcta ccgagattat ccaagatgcg ggaactgtta gagggcgaga ggaaggcaac 10440
ctatgcatgc gatatgaatg ccaccattta tcactaacc tgagtcgtga gtcacgtcgg 10500
cccgtgagcg gttgttgcg aaattgcggg actacgaaag aagggttggt cattggttta 10560
agaaatctgt ctgcccagag ctctgggttc tgggttctga agggctgagt cgatgttgaa 10620
tacgagatca ataggaaggc catcagtatg gattgttcgg tacgtacaa caagccatat 10680

gaatgatagg tgatatgcag gaagggatta tcacatgcaa ggtttacaca atgaatcata 10740
 tgccgatgag cttccatcag actatttaca atactttaca actctatgac aaaacttacg 10800
 tgagaacccat gctgtgagta tagaggtaaa ttcgcatgta tagccgctta ttatatcgtc 10860
 ttttcgaaag ttaaacttgg tcaaattcat gagtattaat ttacaacaag gcgactttag 10920
 aggtgatata cacctacata cacgggtctag gcctaaatca cataggccga aggtgtattg 10980
 catgtctttt tttgtaattt acgcaacagg tatttgctct gagttaacat cgcagaccgg 11040
 gatggagcag aaatcgatgt gtatagtagt gtaaataccg cgctgtataa ctttattact 11100
 tagaatcata gcctgaatat gctgaaagcg atatagttaa tgccagagtt gtagggcagg 11160
 aaatgctgga attaagatac aatatatatg ttgtgcgcat tatgtacagc ataacttcca 11220
 atttgcacat aaatatttct ctttaattaat tctcattaac agtaacattc aaccagctc 11280
 cgcggaact catccactct aaggtgattt gagcctcaa tggataataa tctaactgat 11340
 tgatctcaga ccctaaaaga aaagaaagaa aaaaggagcg gatgcagctc caatagtcag 11400
 cagaagatct tgcttaaaga cagacgcaga tccagtgaac tctgcagcag cgggggtggt 11460
 cctagaaatt gtcacgttg ttgatccaat ggccgagaca gataccaatg tgcttggtc 11520
 aggcaggacg gggctttagg ggaaggagaa cggaacacg ctgaatgagt gggttgggta 11580
 gtatgcggag ccggaactg gaggagatgg acgaattgcg ccggggccag atgcgacttc 11640
 ggagtcctgc ttaggtgcgg ttagaagctt agttcctgag ggagaacctg ggatagacgc 11700
 aaagccagag gccaaaccag agctggaggt gagggcagac tcggcgccag cgggtgatgc 11760
 ggatgactcg gccctgcgtt ggaaccgccg gggtaggaa cagagccgta acttctgtc 11820
 agaagcgcg tggcagttgc aggagcattg ggaatcacg tcaccaccgt agttgacgcg 11880
 acgagtgtct cggttgagac aaaggtgtc cgtgcgggac ggtctgtcac tgtttgcgga 11940
 caagcggtag ttgtgacgat acgctgggtc agaacagtcg atgtgctcat ggaggggctg 12000
 agggagtctc ctaaattgga gccgctattg gcattaccac tgccattgct atcaccgagg 12060
 ggaaaagata tgggtgcgagc tgcgtcggtc acgggacaga tcgtcgttga gatatagacg 12120
 gttttggtgg tgacataggt acgtgaattg tgacagtcgg tgactgatgc tgggcacgcg 12180
 gtgatggtag ccgtgcgcgt actgaagacc gtggaagtgg tgaggaatgg gaaggacgag 12240
 gggtcggaga agatccgtgc ccagcggtag tcgtggggag agttgcaatc gtcgaggctc 12300

cgtcctcagt aggcggattg agagtgggaa gtgatgttgt agtagaaagc gagccacca 12360
 ctgaactgca ctgaactgga ggtagaacca atcgaggtgg aaatgacggt ggtcgctgcc 12420
 ggaatagggc gcgaggatga gcgggcaactg cagggaccga gctagggctc ctgactggcg 12480
 acagagacgg taccctgact ggagtaggac ggaaactggg atctgagtga aggtgttcgc 12540
 cgggttcgag gactgaggag gcataacagg aatagaggag gaccgtgtga cagggctttt 12600
 cgatggtgta ggggagggag tcgctgacga gcttgctcgt gcagaagata gactgataat 12660
 cagaggagca gatgacgggc gtcttgctgt gaggacaatg gtctaagcca aaggggac 12718

<210> 5906
 <211> 11350
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5906
 ctccccgatc caagctggga acggttgaag ttgaacttgc atgagtaaag cctgatagac 60
 ggaccgcaaa ctaacttcgc gactactggc agccgtccat ggttctggcc caaccaacca 120
 gaataggcag tcagcttgct gctgatccgt ggatgcttac taaacccta ttgtttctcg 180
 gccacgcgac tcgaggtcga aaacatccca tgactgcagc cacagccaac cagcagccaa 240
 agggcccctc cacgagatca actctgtgac atctgacgcc catgtccttc ttactctcac 300
 aaagcgcaag actgttgacg cctccgctgg tatcggaatg tgtgatcacg tctagggttg 360
 ataacatctc atctaggcgt cgctaagcgc cccactactg accagcccta cgtacaaaaga 420
 acgccttttg caatctggtg tatgatgatg ggagaccgtg ccattactga ggtagtcac 480
 acccatggta cttgtctcag ttatttacgt gcgaacgaat cttttgtcca aataacctcg 540
 acccgacctg ctacgcgaga ggctgggtta acaggaagac aattccagtc cgatagaagt 600
 caaaaacctg ccattctaaa tggcgagttg cttgggatcc acagccccta atttattatt 660
 attatcatct ttattgttca gtgtccgcca ttttcaccgt cgtttctcgc tcttgttttt 720
 ttttttttta tggcgatggg cgccagccaa tgaagcccc gtcgatctga tgatccctct 780
 taagccgtgt ccaactgttg ccgactccag ttcccttggga cctttcaggc tcatccctct 840
 cgccgacgcg ccgtcgga aa ttttcgccat cgttgtctgg cccttcgccg aatcatgcac 900
 gttctccggt cctctatccg tttggactct ggacctgtat gttgacgcc gctccaccta 960

cctactcgga agatgaaaca ctcaatgagc gactgagacc gtccaataat cctcgtgcgc 1020
gacgagcgac tcgcggcgca caaagctggt ctgccgccag cgcgcacaaa gcacggagtg 1080
catgaagatc atgtagataa ccggccgtct gtgcagctga cggagcacag agtctgatag 1140
tacgaacagc tcattttccc aagtatgagc gtgccccgct cgctcgagcc attgaatcct 1200
gatatcgga ttccgtttgc gacaaataat aatatgactg tgacatgtcg ttccagacgc 1260
agaagctcca gtatcatgcc atagtaatat ggcagaattc ctgcagaatt gccttcgacg 1320
gcccttcgct caccaacccg tcctgcagcc tgcagcctgc accgcattga ctgcccctca 1380
gtcagaatac taattaactg cattaactaa gatccgtctt taggttctct gccgtgtcc 1440
ttaactaat cgccgaatta agtacagtgc gaaacgaaca tcacggctca gccctcggct 1500
aatcaaagct ggtctagcct ccgagtcct catcgaaacggc aaacaggctc ctgaccatta 1560
tgatatcaag cgcgcgcgtc atatataatga agatggtggt aatgagcatg ttgaagatct 1620
cgccattgct ggtgtcgaa gtgtaggcag agaactggag ggtgcgggaa gctggcccaa 1680
tgcgtagatc gtggtattcc atcattgtgc agattccttt gtgtagaacg acgatgcctt 1740
ttggctcgcc ggtactgccc gaagtgaagt tgatcatggc ggcgttggct ggggagacat 1800
gggggagcac tagaccgtcg ggcaagggga gtaagcttgc cagtaaagag gaatcgacca 1860
cgatcgctcg gtccacgaac agtcggatca tgtcgccgta ttagtgga cctgcgagga 1920
caatacgggc tttggtctgg acgataatat tggctaggtg ctggaccgga tgagacgggc 1980
tcatggagac ataggcgcca cctgccttca acacggccag catggagacc acggcccacg 2040
aagacttgct gaagcacagt gggacagcgt cctcaaggcg cacgccgaga ctgatgaggt 2100
acgtcgctaa ccgggtggac aactggtcca gtcctctgta ggtcatggtt gcatcgcacg 2160
aatcgatcg cagggcatca ggatgcatga tagctcgctt ctggaacttg gtgtggatgc 2220
agtcactcat ggcctcaggg acttggccct ggtgagtcac gtcaaggata tactgcatgt 2280
gcttgctgcc cagaaaatcg atgtccctta tatctgaagt cggttcctcc acaagccttg 2340
aaagtatcgt cgagaagggt gaggccagca tttagacctg ctcttgctc ataaatgtgc 2400
tccagtagtt aatagcgaca tcaatatcag tctcaccagc ggtgatacta attcctaggt 2460
cgtactctgt gggatcacta ccgccaggt actcgatctc gatgctatgc ctatcagcag 2520
cctccaccat cggctgctgc agagacaaga cgctgttaaa cagtctctca ccggagagct 2580

ctagcgcgatg	ctgtacctgc	gccagcgacg	tctgctgggtg	cggaagcgag	ttgacatagt	2640
cctcgtacaa	tttgcgcgtc	agatcgagga	gtgtgcagtc	gtcatcgacc	tgcactcggc	2700
aaggcagcat	ggtaatgaac	gcgcccaccg	cgctgtccat	atccatatcg	agaccgtcaa	2760
catcgcgtcc	ggaagagagg	tatccgaaga	caacatccga	cccttttgtg	tatacgcgga	2820
gagccaatgc	ccaacaagcc	tggaaaatat	tcgccagtgt	gacttcgttc	ttcttggtga	2880
aggactgcag	gtctagaaca	gtcgcggggc	caacgtggac	attgacgaac	tgcagcttac	2940
gctcgcggga	tgctgcaatt	gctgtgtgct	cttcgagtag	ggccgggaaa	aacacgggct	3000
tcacatcttg	gaggtaggct	gtccagaatg	ctagcgtttt	ctccgttgat	cgcgcttgta	3060
ttgccgcgat	atagtggcgg	tatagcggtc	ccgtgggaag	gtcgtcgtca	tacgccttga	3120
cgaggtcacc	taggatgatc	gccatcgagc	ttccgtcaat	taatgtatga	ctgatttcga	3180
gattgatgaa	gactacgccc	tccccgcctt	gcgagatggg	gagacgggtga	ggcggcgcg	3240
cgtcccggta	gtcaaggggg	tggctctcgg	ggtacttgaa	gaggctgtcc	agatccgccg	3300
catgctggat	ctgggggtca	tgatctataa	gcacgatttg	cgtgtaaagc	ccatcttggg	3360
acagaccctc	tacgaagaat	gttctcaacg	ctgggtgtct	ggcaactagg	cgacgccaag	3420
ctagctgaac	acggtcgata	ttgacggggg	ctgcagaatt	ccttgcccga	agagagcata	3480
cagcaaagaa	cttgtagatc	tctggcgctg	tggcttgact	gatcagaatg	tcctcctgca	3540
tgggagaaca	agggtaggcg	tcttcacagg	catcggcgcc	agagtagccc	agcttcatga	3600
ccagggcatc	tattttcttc	tccaattcgc	cggctgatag	aagagaaaat	cgttgactcg	3660
tgctcgtgcc	catacaaagt	cacttagtct	tgtgcgacgc	ttgtgtagca	gccccacgga	3720
taatcttgct	cctcagaatg	tgcttgactg	cgagctggag	gccgcgcgag	cgagagccgg	3780
aggacacctg	catggttgta	atggagtctc	ctccaagagc	gaggaaactc	tgggtccgtgt	3840
caacatgagc	ggcctgaata	ttggagactt	cgctgacgag	caagtcgtcg	attaagtcct	3900
gggtaaggat	gacgacatgt	tcgaccaagc	cctgaaacag	ggcttcctta	ccctccccta	3960
ccaccgcaac	ccgggctttg	cactgccgaa	tcattctctc	tcgacggttc	aagggatggt	4020
cggggtcgaa	gacgccaacc	gcgtcgctga	tggtcaacac	cggaacgtct	cgaccggcgg	4080
tcagatagcc	aaaacagatg	tcgtcttgac	cagtgtaaagc	cttgaggacg	agggcccatg	4140
ccatttgga	aacaatcgcc	ggcgtgacat	tatgtctggc	gcagaaggca	tggatgccct	4200

ttgcgtcttt	caggtccacg	gtcaatgcat	gtaacttggt	ctccccctgt	atgtcgtcgt	4260
tgagcacggg	aaagtggcat	ggagaggcag	cctctaggta	gctcccccaa	taatctattg	4320
acatccccgc	agggagagtc	tgcacgtagc	ggatatatgg	actgtatcgt	acaacctccc	4380
cgatctctaa	caaccctgca	tatgcccgac	taagatcacg	gaacatgatt	agaatagaga	4440
ccccatcgat	gagggcacgg	ctaatatcga	cagtgcagaa	ggttttgcca	tccaccgtgg	4500
tcgaaataat	ggaagtaact	ggcggctggg	cgggattgtc	ttgtcgagtg	aagtctttga	4560
gtgccttcca	aacggcatcc	tcctcctgcc	gttcccacag	taggaatgct	gcctcggctg	4620
gtttatacac	cagttgatcg	tacagcccgt	cttcagcggc	ggacttgaca	aatatgggtg	4680
gtagggctgg	atggcgagct	gccacttgct	gccacgccat	atggagccgg	gatcgatcga	4740
cctgctcgcc	tgggacggga	atgaccgggc	aagtgatccg	tagttgatat	tgctctggcg	4800
actgctgctg	ggtaagtagg	atacccttta	gaacgggcga	gataggatat	aagtcttcga	4860
cctgctcaaa	atcgaatcca	agctccgaaa	ttcgcttctt	atctagtgca	actggggctg	4920
actcctcatg	gggcaatgga	gtctcctcgc	tctccgtcaa	atgcagtgcc	agttctatca	4980
aagtgggact	cgtgaagata	tcctcgatct	tgactcccag	accccttcgt	cgcaagtgat	5040
ccagcagttg	catggcctgg	atagagtttc	ccccgttctg	aatgaaggac	ttactcaacc	5100
agatctcttc	ctgactatcc	aagccccaaa	ctgcgctgca	gaggctctgc	agttggcgct	5160
gcttagccgt	tgagggtgga	actcgttcct	cgccggctct	ctcttgctgc	ccagtgaagca	5220
ggtggaacat	atcagaggat	agcgtgcca	cccaccggtt	ggctatgact	ctgttctgct	5280
tccctgggga	ggtaagtggg	atgcatccca	ccgggaccca	aacagtcggc	tgcattgtacc	5340
cggaagctg	ctgcgatagt	gcttctgcga	cagctgttaa	ctcgtctgtt	gcagcctcaa	5400
agctctcctc	atcaaccagt	tccacggaat	ctatagcctt	gcggagattc	ttcagcgaga	5460
caacagctgt	cagtttcccc	ttacagggtc	cttgctgcgc	caacacgaca	actgcctggt	5520
ctactaatgg	atgggcgacg	atgcgatggt	caatctctcc	cagttcgttt	tgcagtccac	5580
gcagtttgac	ttgactgtct	ttgcggccaa	tgaaatgtag	actaccgtct	gcattgaagc	5640
gagctatatc	gcctgtcttg	tataacctag	aagtactcgt	cggctcgtct	tccatccacc	5700
tcattgtctc	caaaaagact	gcctgtgttt	tttccggttc	attcaggtac	cccctcgcca	5760
caatggggcc	ctgaatcacc	agctctccag	gcgccccaat	aggcatcaag	cggttgtggg	5820

cgtctatgct	gacaatccag	caacacccac	caagcggata	cccgatattg	gcaggacttg	5880
tggtaggaga	tagctgggga	ttcgccgttg	ccgcgattga	gcattcagtg	ggaccatata	5940
cgttcgcgag	ccggacgtga	gaagcccaga	cctggatatt	ctccttctgg	actgcctcgc	6000
ctccccaaaa	cagaaatcgc	agcgttggca	ccatgtctgg	actcatgagg	ctgacgagtg	6060
acggtgtcag	gaaggcccat	gttatgctga	actgctggat	acatgctgcc	gggtccccggg	6120
cgcgctcctg	gtcgttcggg	atgcaaacgc	acgcaccaga	tatcagggga	gtgaagatct	6180
ccagaatact	gacatcgaag	gtgaaagatg	ccagttgcag	cacgcgatct	gcgtgcgtca	6240
tcttggaac	tttctgctgg	gccaaaggctc	ccgtcaggaa	ctgtcgggtgc	tccacgacgc	6300
agccttttgg	cttgctgggtg	cttctgagg	tgaagataac	atacagcgcg	cttgaagggg	6360
acacgccgca	agttacatgt	tgtacttctt	ctttttccga	tgctgggtggc	agcaagtccg	6420
caaaactcacg	gttaacaagc	agcacttccc	cggtaaacca	ctcccacaac	gggccatatt	6480
ctggtgcagt	caggatcaag	tctgcatcaa	cctggccgat	aatctcctga	tggcggactg	6540
ttggatggga	agggttcagg	aacagaatgg	caccgcctgc	gcgaataacg	gccatcatgg	6600
ccacgaccgc	ccacgcggac	ttggggaaac	ataacacgat	aatcgattcc	ggcttgaccc	6660
ccttggett	caggttgacg	gcaagcctca	cactcaggag	atcgaggtca	cggtagctca	6720
gcgttagttc	ggatgtgttt	accgctgtat	ctagtggtcg	ctcccggact	tttctttcaa	6780
acatggggcc	gacgcagtcg	tccacagacg	gggggtgggat	actgctccat	gaccgtaggt	6840
cctcttcgac	ctcgggatgg	agcagatgca	tctcacctag	ggtgagacag	ggttctgtct	6900
gcacctggct	gaaaatatgg	ctgatggtag	cagccacaat	agaggcatat	gctggggcca	6960
tatggctggg	attatagagt	aggtctagca	acaattgagc	ctccccttcc	gaaacgagga	7020
ggagaacatt	gaactaccga	aactgattag	ttgcgctgcg	gtaacctgtc	acatggagca	7080
atgcgacttg	catgttttag	gatctcgtcc	tcgacgctct	cgttttcttc	gagcatacag	7140
aggcctgaat	cgcacggcag	ctcatgctcc	aggtttagtg	gccctatcct	ccaattctca	7200
ccgtgaatcg	cgctgacag	ctgagaaaag	ggcatttcgt	caccgatttc	tgcgctgaac	7260
agatagtatt	gccatgctgt	cccccttcga	cgcagcgacg	ccgcacagat	gctctcatcg	7320
ccggtgaata	ttttcaatgt	gattgcccag	atcgtctgaa	atataccttg	aagggaagtt	7380
tcttcttggg	agagcagatc	ctgtaccggg	ccctttgata	gaacttgaat	gtttgtccgt	7440

tcattgcgtga	gcttttcaaa	ggcatcatcc	tccttgtagc	ggagaactgg	aaacctgcaa	7500
gcagttttta	gcggttgtec	catctcaacg	ctcacggcca	tgttgactgt	aagattagga	7560
caacagactt	gtgtataata	gtacggtata	aaaaagtatt	caagtgtagc	agccgatgct	7620
aacgtacgga	ccactaccga	gtttataatt	ctcccttcgt	tctcacaccc	cgggatcgaa	7680
accataagaa	tattctgtca	ggcgctcctg	ctcagccgct	gcaggctaag	gaactcacca	7740
gcaaaatcta	ccggagacgt	tcctcctacc	cactcgacca	gactcactag	cttctacgcg	7800
acaccgatcc	atgcgctcgc	agagctctgt	ggcagtcac	aggtaccgat	ttacatgtaa	7860
ttttgtcact	tctgggaccc	tctttgttca	gctcaatagt	gctcggccac	gccgctagta	7920
tcccaagtgg	gctggcaatg	tgtagcaagt	tcagtaatat	ttctggtcca	gatcgaatac	7980
tgtgtgggtg	cgtattttgc	ttttcgtcct	gcttgtattg	aaaagtataa	taccgtacgc	8040
caactgatac	gaatactctc	ttttgcaaaa	cagtaatatg	cagtacatga	gaccacatc	8100
atgttttccc	acacgtcgta	gcgatactac	catgcaagga	gccataggct	atacagtccc	8160
catccctggc	cctccattac	gtaccgatgt	ctctttgcgg	ctgcattgtt	ggtctaccgg	8220
ctactcgtag	tctcagccgc	agaccctgtg	agccccaggc	gggctgttga	cccggaccaa	8280
ggtctccgga	atgtaacagg	gctgaaagga	gaatgatatg	tcccgtgcga	gttcatatct	8340
agcccaatga	tccttcctta	gaaattacga	atccaggcgc	cctgccttac	tattaatagg	8400
gtccgtggct	tttcaagtat	catttgagc	cgctgatca	ctgcaagctg	ggcgaacccg	8460
gctaaagctg	gtggagcgg	ttccttcac	cgcaaccgca	catacagatg	ctgccaacct	8520
aatctaactg	tagatgtgct	caactgttag	gctgcgttgg	ttttaggccg	ctgcggacag	8580
agtccgccta	ctctttcagg	tacatccggc	cattgaacac	gttgtcaaca	cgttttcgtc	8640
accgattctg	catggctgag	ccgggattca	ctctcgtttg	ggtatagggt	gtgcgagcgc	8700
tggatgcacg	caggggtcat	tttcttagcg	gcaaatatct	agaaaaaaaa	aataggcatc	8760
ggtatggagc	cgtggcagac	tcagctcgct	tagggtgact	ttttttctca	tcggtcaaac	8820
gcgggtggaa	ttgtacgatg	ctcaccatc	cttggaggct	tactgcaggc	gcagggtgtcc	8880
ttggttggtt	aagctgttta	gcataagttg	ccgcaggcgg	gcttacagag	atgaattctt	8940
ttcattctat	ctccaagtgt	tgccttgtct	atcctccgcg	tttccagagg	tagagagaac	9000
gtcaacaaga	tgattcacgc	tcacttggtt	tcaatattca	ctttcaaagt	gctcttactg	9060

gggcttggtta cgatcagttg tactgtacgt gtctttatat ccacctttgg tgccgtagcg 9120
 ttgcttatgt cgcacaacag gtagcagtggt tctgctagca tgggggtgttc tttcacccgt 9180
 tagcaaagta ccccggaaccg cggttggcaa agatcaccaa cttgtatgcc gggtagcatt 9240
 catggcgggg agatctgcat cttgacatgt ggaggcatac ggccagttct cgctcgaagg 9300
 agccattgaa atggcctggc tcatgggtta tatccgccac tttggcggaa caatagacgg 9360
 gactccatac tcgggggtggg tggactcgaa gaccaagaag ccagtggctg atgtggatat 9420
 caaaacagta tatgaaaaga ggattttgac ccatagtgggt atccagctgg tccagccgga 9480
 tcaattcgaa gatccaaggt ttctgtacga gattatactg caggaagact tgaaaccgct 9540
 gcatgtaccc caggcgctcg cggagcagat gaaagcggag catggacagt tcgcagatat 9600
 atcgtaatca acaacaccag atctcttcca ggtccggctt ctcaagggcg caagacttta 9660
 catacctcgc gccatgaaca gcaaccgcac ggtggcaggt ctcattccat caggctggga 9720
 cccgcgaaca tacggcgatc ccgaggacgt cgtgacgcag gttgatcccg taactctata 9780
 cacgctcgtc agtacggtcg aggcacttct ctcgccggc atcacagatc catatgagct 9840
 ctatcaatat atccacgtct cagaggtagg agcatgcac gggttcagggc taggtgggggt 9900
 atctctctc caaaaatggt tagcggacgc caaacaacc cggacatctt aaaggacgtc 9960
 ctccaagaga cattcatcaa cacaactggg gcctgggtca acatgcttct cctctcagca 10020
 gccgggcccc tcgcactcc ggtgggtgca tgcgcaacag caatcgagtc cttggaacta 10080
 ggctacgaga ctaatgcaac cggcaaagcc cagttctgcc ttgtcggcag ctgcgacgtt 10140
 cttatccccg agacctcgcg cgagttcgcg aatatgaagg cgactgtcaa caccgaggag 10200
 gaactggcca ggggcccacc ccccacgaga tgtctcgtcc gacaaccagc acccgtaagg 10260
 gttttgtcga gtcggagggg caggcataca ggttctgact actgcagcgt tagcattgca 10320
 gatgggggtt cctatccgtg gcattgtggc atttgtcaat acctccagcg ataaagccgg 10380
 ccgctcagtt ccggcacctg gtaggggcgt cctcatcgaa cgccaacaag tctcattcag 10440
 agtcccatcg cctcacttga gtatcccgga atcgcccaa gcgattagaa tttcgactcc 10500
 gtcaaatcac tgaagctaga gagatggcat tgcaaacct cgacgttgag gtttcagcag 10560
 tggccgcca ggatccaaca gtcaatgtcg acgctacgt ccacgaacgc cgtcagcaac 10620
 tcctcactga cttcacccgt gaagaaagcg aagcccgctt caaaataggc gacaatttct 10680

ggtgtaatga ccccatatt gctccctat ctggcgccct ggcgacctgg ggcctaacaa 10740
 taaacgacct gacggcagcc tcattccacg acacatcaac agtactaaac gacaagaatg 10800
 agtctagcgt catccaaacg caactccgct ccctcggctcg gcggtcggga aatctcctgc 10860
 tgtgtgtgtt tcaaagtac ctaacaggcc attccaaggg cgcgggcggg gcgtggatgc 10920
 tcaacggcgc gctgcagatg cttgaatctg gcctgggtcca agggaacaga aatgccgaca 10980
 atattgcgta tatccaacga cctattcgcg ttggcgatat gcaggccggt tgtttgactt 11040
 cgttcgggtt tgggaagaag gggcgaggc tatcgtggtt caccgcggt atctgttcgc 11100
 tactttggct gaagaagact tccaggctta cacggatcgg tgttatgtcc gtcagaagaa 11160
 gccgatatgt attcctatga ggggatgaac gggaactcgg ctaaagctgc gctaccctgg 11220
 gaattaacaa acgagacggc gacatatctt gaccgcagcg ctgcctttcc taatacttaa 11280
 gtttggtgat attgcttaag agacgacgcg ataactcgag ttatggtatt agagctcaga 11340
 cgataccgt 11350

<210> 5907
 <211> 12742
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5907
 gctttctaaa agcaattttt gtccagaaag taactatggt agttagactg gccttagggt 60
 tttgaaatag ggatttggtg gataatagag gtatagaggt agtatttaaat agttcttgca 120
 ggggtatacc tgaagtctga ataattactt actctaatta ctagcatagt agctttatct 180
 cttcttaata ttattttacat tgctgctgca gttattctat ctattattag tttagtatct 240
 ctgcttggtt ttatagttac tattagattt attattgcat agtggtatag gtcctttgcc 300
 tatacaagga ccttagacct tagtgactcg gccaaaggcct gcgctgtcct gaaggcgggtg 360
 agccacctac aagacttcct cacaacaaca atccttcttt ctcatctctt ctttagcgat 420
 tccttcttgt acatacggca cgtctagata ggaagatcca tctaaatgcg tcccttaaca 480
 ttattatcgg tccaaagttg cctttttcga aaagggccat gcatgcattg atcaactccc 540
 aacatgcaaa gcagttctta aaagatataa ctagatagta tatctcaagt acttgctaag 600
 tacttaagaa gcagctaata aatatacagg attttcatag agaatatgca ccattttattg 660

gctgtataaa taagtcctat agagggttaa caaaacatca taggggcgta attcaaggac	720
atacagcaat agacttacag tttctagagg atctctttaa taaagagatt ctgccagcta	780
ctaaagaata tgggtgtttt gaacctctgt caagtcgccg aaaatactgt ggtaagtact	840
tcccaaccaa tctgcaacca gtcattaagc aattatcaga ttaaaatcat cctcaggggt	900
ccagttagtt aaagcacacc acctgtaata tgggtcttcaa tgctctagta cctatgatta	960
caggagtgtata tatatttgaa gctaattaga cagttagatac ttggcagtag atacgacaat	1020
gatctacata atatttatag ttatagaaac atttatagtt cagtttacag aattgttttt	1080
gtttattctt gcctttccac tccagtgttc cgctcccaga gaaccatgaa aacctgggtc	1140
aatgtgtgct ttctttccta caccacacct aagttatgca cttcaagcac cataagtgat	1200
acctcatgaa acccgctatc gctgtaatta aaaactatct acatgagttc ggcgtcgtac	1260
gatttgagtc cccgaggatc atgaattata caaatgctgg tatagctagt cagatcctcg	1320
aactcgtatg gtactaatag gagtcttcaa gtctgaagct cttgtcgggg tatcccgcgc	1380
ggtcaggaca aatcttgtag tcagggctgg agttagccgt ggacatttaa aggacaatac	1440
acgaaatgaa gtatcagatc cctccatgc tgccggctct cagtccactt tcctcgccct	1500
cgaaagctaa gcttaattag ttcgatctcc tcgctggaat ggcgccgtcc atatcgggaa	1560
ctgggtgggt gtggctgtgg cttttttttt ttgccttta gcaggcttcg aagctcagta	1620
ccatcgagaa atccgatata cgagccaggg ccaatcccgt tgggtgggtg gataatatac	1680
tcgactccag tttcgagcat cttgtcgtca attcgaatac tttcgtgtac atcatacccg	1740
taccatcttg cgcggttgat atactgactg aagaccgact cgtccagcta ttataatga	1800
tcttagaata cattctccaa ataagtaagg catcgctgg tgcaattgga actcacagac	1860
tggaaatgaa caaacagatc ccgcttcccc aatgtcgggt cttcatcacc acagccgggg	1920
aagagatact cgacaccgag ctggactagt ttaccgaaca tcaactcttg ggcgacggtc	1980
tgagtttggg tttgggtttg gtgttgggag ctagagccgc gccatacac ccgctgctca	2040
acaaagatcg tcgggttctc ataaatctca tccgctgagc aaatcaggat aaccagcttc	2100
acacatcgct gcctctcata tatggcagtc ggggtcaaaa tctcggtttc gtctgattcg	2160
ccaagaaccc ccgctcagct cagctccggt tgggtggggg aagaggggtca aaccagtcag	2220
aaagatcttg cgaaagcagg tgcttcaat ttcattgctt tggtcggtct ggtccttgct	2280

agtactgaag atggtaggg gggctttccc tttgtacgta gtaaccaacg tcttgatggg 2340
 tccatggcag cgtgattttc cgattatcaa gcttggttga gcctccgcct tggcttttcg 2400
 gtctccctga gacttgatgat cgtttccgca cttcaagctt gctaactctgg gccctggatc 2460
 ggagtgcctt ggtctcttcg aaaccgggt ggcagagcgt ttggtgtgca gaattgggtc 2520
 gtcattgttcg ttgacgtcgt ggacggagggc gggctgtggg gagactttca ttattaccta 2580
 gtgaagttta gtcgagagtc ggagtagaga gttggagtag acaggctaag gtggattcat 2640
 cgctgttggg gtcgaggatt gtttaagtac taaccagcag ggctgtgcaa ggactaacac 2700
 aggcgccgtg gcagcaatag actatgataa agtaccaaca agctcgtacc caccgtcaat 2760
 cacgaatcaa aagatagaaa cggcaccggc gctaagtcct atcaagttac tctgcgggtc 2820
 tgtctgttct gaaacttaac ctgccgtgaa ctaaagctat tccattaata acaagttatg 2880
 atgatgactg ctgctcgtaa acccatcaac ctgctgtcta ttgaccagca gtaaattgca 2940
 tcaagaggat gtatgttttt cagcatctgt tgagagccct gaaatggaag ttgcgggtta 3000
 tgactgcgaa gtcacttgct gaagagggtta tgactgtgga gtcagagata ttagccggat 3060
 cgcaacttaa aagggtatag ttgttaggca tgtcatgttt gcaggggtaa taactgctgg 3120
 aggacatggc cgaagggttag ggcgctaggc aggccagaaa taagtctcca tggctgctgg 3180
 atgtgagtac taaggtttcc atgactcttc aaatctaacc acgcaaattt aaaagtccca 3240
 gatttgggat ttaggatggc ttatgccttc tggccagccc caatccagt agcgacaaaa 3300
 ggaggaagaa aaccctaccc aatccgcggt tataacaagt caaagggtta gaatcatcga 3360
 taacttcact ttttctcttc atgatgagct tacacagctc agttggcatg tccttcgggg 3420
 atatcgctcg ctggagcata ccttgctgcc tctccgaaa ctgccacccc tgggactaca 3480
 gaaaactcca cactataagt cgaatactcc tctggtttga cctgcgcgtg gatcgagact 3540
 ctattcagca tgacgtaggc tgagtttaat catggggagg atgaaaatag cacctaatacc 3600
 ctcttattcg aactctgctg gccacagcta cactgcaaaa cccctatcgt tactgggcga 3660
 cagctgtacc ctcatgttag gcctaaacgt ctgcgtgcag gtcaactttc acaagagtat 3720
 ccgtgagctc gataaatcca aatcttacca caattcaaca tggtcattga catatacga 3780
 cataatctct acccaaactc aaacaccagt ggcaacgcca atgccgatcg ggccaggaat 3840
 ggtagagtgt tgcacggcct tccacctagt cgaaagcaga gatgcgtgta ccgctatgac 3900

gggggacgca ggagtccttg tggcagactt tgtaaccatg aaccctgatg tggactttgc 3960
 tgctcttgtc tttgctggat tattacgcgt gtattgctac aaactcgagt gctgatagca 4020
 gtacacctgc gcccaactgcg acatcaacag cctcaactag tacttcagcc gggcatgggtg 4080
 tgtcgatacc aacgccctac gagtccgggc ggtggacgac agcgatggct tccatattgc 4140
 gattaacaca tgtccctctg ttgcggtga tgcgggattt actcctgaca attcccacag 4200
 ttggaactct acggttagat ctgagtgttc ggggttggtc tttgggtgtt atgtccgtga 4260
 ttgcattctc tagactatgc tttcattggt aatcatttca atattgcctg actcgggtcg 4320
 ccgaatataa ctggtttggt tataaaaaga cagggttgcca agtttcttac aaggtaccac 4380
 caaacgata ataagaacaa tgcaaacag gagctccatg tccgcctgta cagccgagct 4440
 cagtgaacaa attttccaat ataaatttct ttgggggaca taagaattgc ttgtaggggg 4500
 agtaccat ctacaaccgc cttttttgct tatttcgaaa taactggccc ttgaggcttg 4560
 agccgggaga caggataatc ttagttaata gaacctata cagtaaagga aacctgtaag 4620
 cgcactcgtt agcagttaaa ggcagcgaga attagacttg ttaaaccacc ggttggggcg 4680
 agttttcagg gctagcagat ccgcccgcgg gggcttggg tgggttacct ggacagtaaa 4740
 ccgcccattg gttaagcaaa taattttaac ccaacccaaa gaacccaaat atgcatatca 4800
 actgcctatt tttgaataaa atactgtatt aaaatatagt attatatctt atttagtata 4860
 catatgtaat ataaatacag taccacacct attgggatgt cttggcaacc cagcgggtcg 4920
 gcccgccgcg cttgggtcag ccaaaaatat ctatggagcg tcggattaga cgtaattacc 4980
 agcatcagcc gtcaaataat ataaaagaaa tgaaggctctg cttcttccaa tctagctcta 5040
 taggtcgggt taaatacata agaaataata agcaacctag cctaatacgg cagttggaag 5100
 agacataact tttgaaccgt ggaaatagct gaagtctctg cataagcatc ggcgagccgg 5160
 agcttgagcgt tccgatatcc caaataggaa agttccatat atgactagct gtcacatacg 5220
 gtcgacaata tccaaacccc aatggattat agatggatgg tccaactcaa cccaattcct 5280
 ggcgggttag gacgggtttg acaaactctag cgagaatgcc cagtctatca tatcttgctt 5340
 tgtaaagtag atgttatcct gattcctaca agagaaacaa tataatctgg ttatctgtat 5400
 accattatta ttgttttgtt ttagcatgac atggcgacta tgagtaatga gctctggttt 5460
 acttcaaaaa tatatttcgc ggattgcgct tgggacgcac gcgctactgt gcataattaa 5520

atctatta aa cctgccccaa ccgccatgac cttccaagac attgattaag gacggaattg 5580
 tattecttgc ccgagttggc ttacttgggc cgtttggacc attccataca gtccgtgact 5640
 ttcacaacta gtttacattt cttcatcgag gaccgatgca agatccgcac tcagttccag 5700
 tggaaccatt tcgccatgac ctccccgatg actgcgcaat caaattcact catggcgatc 5760
 tccatcgag aaacatatcg tcacacccac aaccccgat tgtactttgg cggtcgtcga 5820
 ctgggaacaa tctggttggc tgccctgaata ctgggagtcg cgcaaggcgc aatatactcc 5880
 tgatagagct gaagacgggc cactacctac ctgccgatgg ttctggatgg gtttgctagt 5940
 atttgagatc cataggacta ctacatgtta gcgatgggat gttgagccat tacatactgc 6000
 tggttgggtg tttactgcgg cttgtcgta ctatggttcg tcagcgagat ttctggctag 6060
 tatgagagat atccaagatt acgatatcat catacagtta gaaagaatgg atttgatacc 6120
 tcatatagta gccttcggct gcagagacgt aaagggcaat catctatatt attatattag 6180
 gagcatcaac ctgagccgtg aagcctacta gaacttgcac catatctatc tgccgataga 6240
 tcttcaatta ctcaactt ccctgaaagc gtcctatgctg ccaatgcaag cttgatatct 6300
 ctagacgcca acgcagacgt agtaatcaac ccagaggttg ctacaagagg catcaatcgt 6360
 agggttccac ttgcggaact ggtccagggt gatgtttag gcagaattaa tagcccagca 6420
 gccctcgccg ctctgaacct tgtggtatgt catacagtcg ctggtgatac caggcatctg 6480
 gggcttaggc gcgacgtgaa cgcagacgta gtagtcgagc cagaggttcg agcagtctgt 6540
 ttatcggaga gacttgtgtt agcgttgtac aagccctagg aagactgaga agaggaaagg 6600
 acatactgtc atcgatataa gggttccagg aagagaattg gacattggtg ataccataac 6660
 tggcttctat ggtatcgac tggctcttcg atgccacttt gtgaaactta tcacagttcg 6720
 aggctaggcc gggctgagtc ggggaggggt agccaccggt ggtcgtgccg gttgtcgaga 6780
 ttgtagtggg agttggcttc tcagtagtgg cggttaagggt gacagtggta gtgcttgtgg 6840
 tcgccgtgga agcctccttt gtggtgatgg tggtaggggt ggtagaggaa gggctgggtt 6900
 cgtcgacggt gacatccctc atgacgcagt aatcagcgaa gtcgtcaaatt ttcgtgcagt 6960
 ccaagccagg gttcagcaag ttgaggtcgt caacagagat accccataag gccgcgaagg 7020
 actcgagct gtcacccgag cttgctgca tggagaagga acagtccacg ccgcgcttaa 7080
 cgagagggat gctacgagca gcgagcagct cgggaaggag gtcagggca acggcagact 7140

tgagagaagg cattgtgata gaaggataaa tgcagaaatg tgtctgccaa atcgagttcg	7200
tccttctggg cgtggtttat atgtccgtcc tccagtagcc cacagtcag tccaacttct	7260
catgctcaaa attcaactct gtctggatcc aactttgaat gcggctaccc aaaagcggcg	7320
tacatagtag gtatctaggt agcatcatcg catagcttac cccaagtgc tggactatt	7380
ctgatgggtc cctatcctcg tctaagtcta agggctcggg ggcaatggaa gatgccggat	7440
tgccgtgcaa ggctgtcctg agaagttatt tgcggctgac agttcctcag agcagtctaa	7500
cagcagcaaa acccaccagg gtccggagcc ctagatcacg ttagtgtcac agatacctct	7560
ctagcggccc ccacaccct tacaaggctg caacgtggc caaggagtgg tcctcagctc	7620
ttctggcaat gagagctcag attcgggtgg gcttgagag aatcggcgca aattttaaat	7680
aatctacacc atccggtgcc tgtattcctg cattttgcc tcttctctc cacctctcca	7740
gtcagcagtc gctccttctc ttctccactg ggtccttggt ttctgtcttt ccgccccac	7800
agcttgagtc tccagcacta acatgggtcg tgtgtcctgg ctcttgctcg gcctgctggc	7860
atgttgggcg acggccgagt ccaacaaaac tgagatcaat ttaattttcc cgcggaagg	7920
cacgttcgcc ccaatgact cgatgccagt ggtgttcgcc atccagaacc catctgtcgc	7980
caaggaactc catgcaacca tccagtatgg ggtgcgcca aaggcggtg gttctaacga	8040
gacggtgtgg agctattcag acgagctggc caacgtccca gccaacgga caacctactt	8100
cagttccacc agccttggca atatgctgaa caccaccgt agctgggagt tcttctggaa	8160
cttgatttgg ctcaactgtt ctcaagtcaa tgatccggcg tactatgact ccaaataccc	8220
gtgggtcctt ggagccgacg gctcaatca ggatgccgtt ctagatggct tccacttgtc	8280
aagctacttg gtcacgcca aatatctctt cttcgacacc aaagaagggtg gcactgcggt	8340
aaacctgacc accctacca gtgacaacca atgcagtga gcctcggggt ttgttgctcc	8400
ggccttggtg aacacgtcg acattcccag ggactttcct gatcacaata gcctgccgtc	8460
cacgtgcgct cagctcgcca attcgacctc gacttcagcc acgaaagcga gcccttgag	8520
ggtagcatc agtcccagg ctgaggcgag cattttggc gacgccgagt gccacaatac	8580
actcttcccc acttcgggtt gtccggacaa gacaccagga gacgacgtcg cggcaggcct	8640
tgaccatggc cgggcagtat gggctgccat tacactagct tttgccctgg ctgtcggcct	8700
cgtggggtgc tagttggacg ctgctctagc gtggattgac gattgggtgt atatcatatc	8760

atgccgtggg gtagtgcagg agctagtcaa ttataaatga acatgcgaac attggaaatt 8820
gtacctatca tcaagttggc acctgagact tagggttgct ggacggcaac aatgttctga 8880
cggatatactt ctcttgtaat gaatatttca cgcctatgaa tccaaatttg tgaatggtta 8940
ggtatctatg attgccaat gtaacctcac catctgaatg tatatccaca tttatgaagg 9000
agtgaagcct catccccctc cactagttta tttacaggaa tattttataat atataatatt 9060
attcctgtgc actatatgag cgggtgtatt ggcaaggacc tgtgatacaa tgtcggcgcc 9120
tgaactgccc tgccaagcct gtaatggaat tgtggattct ctagtggctc caatggctac 9180
gcagaacaga aaattggggc acagtagtgt atgctctgga gaatcttgtc tcagttcttg 9240
agcgctaagc ctctctctc aggggtccta caaggcttgt caaagcttgc ccgcccagtg 9300
aattcatgga actatgaaac aattagatgc atatgacatt actatttgtg agaactattt 9360
ttcatatgct tctgatcttt caaggtataa acgttcgtat tgaaggatac tgtgaggtgc 9420
atgtgttcct ggccgtgtcc acagctgaga tctcagacat tagtagtagt gcgcgcactc 9480
tgtgcaagag gagatctgag ccggttgctc aggctatggg tcaggtacac catagaacag 9540
tctcaatcaa gaaacatggc cgaaggtgga atgggtccag atgcctccgg cgtctccggt 9600
tggcggttca agccgacagt gatcgaggaa ggtcaagcgc ttcgggccgt ggtccctcaa 9660
agcctcgggg gcatcaatgc gcttacttgt tgaggcagga gtattacaca ttgaggttca 9720
ttaaattatc gtatcttctt cgaactaaat cgctgtcagc atttcgaact cggccccagt 9780
gggctcgcac tccaaggtac tcacagccag acctatccca gcgctggcgc ctacccaagc 9840
gtgggctatt ctggactttc tgcggggccg gctgagcagc gaaatctgta attccgggtt 9900
ggtttgctta cggtatgctt cgtgtcttcg tccttagccg aataggatga ggctgtcaag 9960
ctcgcttggc accataggtg caatcttaga gtataccaca gtgcacagag agcgtcggta 10020
gctagactga gagcaatgtg attctcgagc aatcataaat aaccagccc gacgctcctg 10080
ttgagccttg tgtcaatggt attccttcca tagcattgct ggtaactcgg cgtctgttct 10140
tttgtccagt tactcatttt ttgcctttgt actctatact ctcttttctt tccgttttcc 10200
tttgatacca tatttttcgg tacgcagccc atggctcctt cctggcgcat tgtggcggtc 10260
agcgcccttg ctctctccct tcctggaggg aacatctttg tctctgccc gacaggatcg 10320
aggcaaccgg ccgcccctgg ttaccgcggc atgaacacca tctgcccttc tgctgtctt 10380

aagactggcc ctgacccccct tgactgggtct gtctacccca gtgttgaccg gacatctgcg 10440
tgcaagcagg ttgtttcteta cagctttctct ttgtatgaca aagtcgacga caaggacagc 10500
aatcatcgca tttatgcctg cactgcttat ggccatgact gggaagacaa cactaaggcc 10560
gaagcggctg ctgctcgccc tgctaagagt gtcaatgtca cctacgaaat cggatggaca 10620
accagtgagc ccggcacaga ggccgactac agcttggtga tggagcagat gcgcgagtac 10680
gtgggtcaatg gccacgctcc taaaaacaga acattcatgc tgtattcgcg gttcgggtcag 10740
tccgttgctg gtctgtacat cggccagggg ctgcgagctt ccgacgttgc gaatactgcc 10800
atcaaaactt tggactctaa caccgccgat tttgatggga aacgcgatgt cctggcaatc 10860
cagctctgtg gacctggcta tgactctgac catatcctgg gggtcatggc tctcaaacat 10920
gggaccatgg gcgacatcca gcagacattc atgtcctggt ctgatgccaa gtgtcttgac 10980
tttgccaact ctacgagctt caccaccagc gcgcctttta cgctgccccca actgtcctcg 11040
atcaaaggca accatactgt ctcccaaagg aacgccactg tgacaacagg gcaccactct 11100
aggcaatccc tggcccactt ggcacttcac gctcgggcat ttgaatgccg gactgaggtg 11160
gtgggcgatg gagacagctg cggcgccctg gccgagcgtc gcggcatctc cggcgccgac 11220
ttcacgaaat acaaccgga caagggactc tgctctagtc tcacgcctgg taagcatgtc 11280
tgttgttcgt ctggcgacct ccccgacttc cgccccaggc ccaacgacga cggctcttgc 11340
gccaccaccg tagtgaatga cggccagagc tgcgctacag tcgtggcggc caacagtctg 11400
acaaatgacg acattgaaga gtttaacaaa gatacctggg gctggaatgg atgcaaaaat 11460
atattggccg gtagtgtgat ttgtataagc aagggcacac caccatgcc cgctcccatg 11520
gagaatgcca tctgcggaac tcaagtacct ggcactgagg cacctgatga catgagcaaa 11580
ctcgccgact tgaacccttg cccgctcaac gcctgctgtg acgtctgggg tcagtgcggt 11640
attacccccg agttctgtac cgacacgaac accggcgctc cgggcacggc caagcccaac 11700
accaacggct gtatttccaa ctgcggcacc gacatcgtca agggctcccc cccatctgaa 11760
ttccgcagta tcgcctacta cgagggatac ctcttcacac gggagtgcct gtatcaggat 11820
gccctgcaaa tagacacctc taagtacacc cacctgcact tcggatttgc atccatcacg 11880
gagaactacg aagtctctat cggtgacgaa ttgatatcct acgagttcaa caacttcaag 11940
tacctcaccg gcccaaagaa gggtctctcc tttggcggtt gggatttctc aaccaacca 12000

aggacataca acatcttcag acaggggtaca caaccagcga accgtctcaa gctagcaaca 12060
 aatatcgcca agttcgtcaa ggatcacggg ctggacggcg ttgacattga ttgggagtat 12120
 cccggtgtaa gttactccct cttctccaag agtagccttt tcaagatgta ttctgacata 12180
 taacaggctc cggatatccc tggcattccc gccggcagtg aagatgaggg agataactac 12240
 ttgaagttcc tggttgttct caagaacttg ttgaaagaca aatctgtctc aatcgctgct 12300
 cccgcgtcat actggtatct taggggtttc cctatcaatt cgatcagcaa agttgttgac 12360
 tacattgttt tcatgacctg tgaccttcac gggcagtggg atgccgcaa cccaactct 12420
 caggacggct gcccagagtgg aaactgtctg cgcagtcagg tcaatcttac ggagaccatg 12480
 acttcttttg ccatggtcag tcaccaaccc cctacaataa atctacaatc actaatttgt 12540
 gctgctgtaa gattacaaaa gccggagttc cgtctgaccg cgtgggtgtg ggagttgcca 12600
 gctacggccg ctccctcgcc atggccgagg ttggttgcta cggccctgag tgctgtaca 12660
 cgggctcacg cgccaactcc gacgctacca aaggaccatg cacgggtaca acaggctatc 12720
 tggctaacgc cgagattaac aa 12742

<210> 5908
 <211> 7775
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 5908

aagggacaaa ggatgatgac taagactggc tgataagacg aaagacagcg aaacagccgt 60
 ggcagagggtg aagagcaata gaagcccgag tatgaagtat aaaatataaa agtataacgt 120
 acagcagcga tgagatagat gacagaggct gagacttgca gacgcagagt cccgtatagt 180
 atagtcctgg cagtgggttc ctgtgacagg taatgcgatg cgacgcgcgg gagataagcg 240
 aacgcaacag cagcgatggc ggtaatcctc gatgtgaacg gagtagaaca atctgaaagc 300
 gagaacaata gtgacagagc agctgttatt gttatagaga agaggagggg agagagggga 360
 ggaaggagaa gggggggaaa gtaaggagag gtgcaggcac tactggcagt agacagaccc 420
 tccgcagtca atcatcgta tgctgagaac gactgtcag gctgtcagcg ttagtcagtg 480
 gtgtcagtat ctggtcagct ggataaatta ctgtattacg aatatttctg ggcgtcctta 540
 tcagcataat gagggataat tatgaggatt atctcacgcg tggccgggtc gattggccag 600

gaacagcaca tcctgcggga ggactcggag cgactgtatg gagcagactc tgtacgctct 660
 gtacagatac aggacagaga caagtgtacg aggtattgac ttccaaggaa agacaaggaa 720
 agaccgatga tgcgctcgca caatgacaga acagtcaatc ggccctattc tctgagcccc 780
 tgctggggac gaatcttggg atgcgacaac ctcccgtgtg gcccgcacgt gggctctcgtt 840
 cttccctctc cagccctcca gcatectccg gtacctcttc agctcgacga atctcaggtc 900
 gcatactctg aggtgcctca tgccgaattt caaactgacg tggaagatgg atggcaagtt 960
 tagccaccgg tcaaccaatt tagaccaggc caatcaagcc ctgtcgttgt tgcacactgg 1020
 actcctactt gacttgccac ctaagggtact gtgcggagta cattgtctct taacgtttct 1080
 aacctttctc atgtctctca tgtcactgat tgtactctgt actgaaccgc ggggtaacgg 1140
 atcacggcaa ttcaggcctg ctcagcatcg tccaaggcc gtcgcccag agagcccccg 1200
 ctttttggat cctctcgtgt tccttgctc gttttatcgc tgctcagcc tgcgccgggg 1260
 cccttaatcg tggaggcagg acgtttccgt tgataacggc gacgcgtct atgcgtgggg 1320
 gcggggcacg cactgacagc aatatatatt cgtatattca gttcttgttg ggggtgttat 1380
 acagaatacg gcgtattgaa atactcgaga gttcctgtga aatcccttc acttttggtc 1440
 tttcaaaatc tagagcgatc atcagccgta cccaggcact ttcgtctgcg tgatcatgca 1500
 gatcgaccaa ttggtatcgg cttatgcttt gctgttaagt cggatcaacg gacgatgagg 1560
 ggtagcatca atatggagag gccctgaaga agtggatata catactacta gacgctaata 1620
 ggaccagggc agcaaacata ctttccactg agagataacc acattttacg tcctaggcct 1680
 ggcattggacc tgccgagatc ggatatacca gttcatactg gctttcctga ggccacgtcc 1740
 aagtcttcac cgggtccccg tttctgttac acgatgacaa ccgtgcctga tgggccaaga 1800
 ccacgacgaa ctggtggtct ccaaataat agctgttccg agtaaataga cgaacaggcc 1860
 agcgttcaat gcgacggcac tctttgaatg ggcaccgggg gtccccatta tgattgacca 1920
 cataattgga atccggagtg ctgcgctctc gcttgagaat agacggcatt ttccagcgg 1980
 ccaaaggacc atgctatgtg ttcgattagt tcaagtgatg gaagtccggc tgatacttag 2040
 gccgggccac caaggtagat atttctggtc caagagcaag gaattcccaa ttaaagactc 2100
 ccaattactt tttgtagtct gcttatggca taagcacaaa ggtcaacttt cacaatctta 2160
 atcctcgtca ttgttgatgc ttaatcgtag ttacatagtt cgatgaacta cgcatcatct 2220

acccgagttc agccaccacg ctctgccgt tggatatatt cggcggctct ttgattagct 2280
 agaatgtgag tgtagagggt agaattgctg aagcaaagca cattgcatgt tgccttgcat 2340
 actgttcaaa gtcgtcaacc tttgggctat acaagaggta tagtctacag caaaataaat 2400
 atctgtcggc atactgattg gcacagtgcc agtctctcga gaggctaagt gactggaaga 2460
 atggagatcc gtcgactatc atttatgcag tatacctatg ggaatttgac ttctgccaca 2520
 cacaacaccc ttactgtcc agctgacaga cggcacggtc ctcccctcac aatacgattt 2580
 tgtcatccta gcaacaggcc agacgcccac taacgatctc ctctctggcc tgcccgttc 2640
 atcgcttct tcaaggactt tcaacccctc caacgggttt gtccgcatcc gcccaacaat 2700
 gcagttcgtc gacgagaaat acccacacct cttcgcagtg ggcgacatcg cagacaccgg 2760
 gcttcgcaag gccgcaaggc ctggtgccgc acaggcagcg acagtgggtca agaacattct 2820
 ggccatgatt gagagaaggc aaccgatgta ggagtaccg cgggcgccag cgggcataca 2880
 tttgacgttg ggattggtat gttccccgtc tgtaagaagc tttatgtgat gtgcatatta 2940
 acggaggtag aaatacaacg tcgtcttccg aaatcctttg gaggcggagg ggcagactga 3000
 accgacgatt attaagcgag atgagtatgt gaattttgac cctgccgtct tgattttttg 3060
 tttgcgaact aaccaattca gtggccgaga ggatatgggt gtcgaggcgt ggtgggaaag 3120
 gctcggagtg gccgtgaacg agcgcagca gtatcacctt tagagcattg tagacgtaca 3180
 tgccattatg ttgcaagata agatgcctac ttagcatgca aatatttgaa cttttgtggc 3240
 acgatattac gatgcaacgg ccctggtaat ttctgtttcg accgcgaata cccggttggtg 3300
 tttgacattg agcgtatat gctgcagaag aactgctctt atcgagaaca atggtgagct 3360
 agcaacttgc tagctagaca gatgaataaa acacagccaa tgccagtta acccaactt 3420
 gctggctcta ggcattgagct ggattgggtc cctgacgtct tccttggtgact gttagtgtta 3480
 gaatcggcta tgagtagtct cagccctaac tccatcccta ctctcctcat ttgactgaca 3540
 gtagaagtct cataacagac actatatact ctagcccatt gtagaatcca tcacctatct 3600
 atcaaaataa cgtctactaa acagtaaaag cttcttttca attatttatc cataaaggctc 3660
 tatcccaatc gcgccatttc tctttcttct tctctacca acaacattct cctcaataag 3720
 cctaccctcc ttatccagat aaaaccactg ctcgaagcgc tccggctttg cctcagccgg 3780
 acgtcatct gacaccgctg gtagatcaaa atgcgcggta gcattggacc tcgacacgaa 3840

gctgaccgca atatctgggc gggaggtctg gttgtaattg atctcgttcg agtcgacggt 3900
cccgtgacc aggtctagcc agtagccgtg gctttgctgc acgacggatg ccgcaaaggt 3960
cgcgttgacg taggtgttgt tgacgatagg gataagagag tcgccgcgcg cgaccttgta 4020
ggtggtgaac cagttgcggt acgaagcgat caggccgggg cggtactttt cgacatcttt 4080
gaagtctgct cggaacatg tcagcatcag tttcgttggt cttggtagtg gaggtatata 4140
aaaaaggaat cccctcacca tccaccagtc ctgcaatcgg gtccctcaca tcaatcccta 4200
gaaccttcca gtccgtctcg ccgccatcat tcagcgccag cgcgcccaga atcttaacct 4260
gcttcacctg ccccgtaaag cctgatacct ggccgatatc aaacagatcg acgggggtcat 4320
tatctcccgg ctctttggta aagtcatgct tgaagttagg gctctcccag gtctgcggga 4380
tcgaccgta caagaacggg taggacttgt gcggccagac gctctctacg tagcgcgggg 4440
agccatcgcg ttcgctgtga aaaattggat tgagcggctc cgaccggcgg atctcgatct 4500
tcccgctctgt attacgaggg atctcaacga cgaagttgat gatttgctg cttggtgggt 4560
gtgggtagag cgggacgtcg tgccagaagg agatgggttg cttgttgtgt tcgagccaga 4620
tgcgccagtc ctgggttgtg tcagagttat tctatttcag ttttctttat tttttattga 4680
ttttcccag aattgttgga gactacacgt accagcgtgt tgccggcgcc aacggttctt 4740
aggctgaggg cgttgtagtc gaaaggtaag gtcgcattgg cagatgtcaa ggcaggcagt 4800
atagccaata tggaggcgca aaggggaagc ttgctgagca tgaccatgac ggcggtggac 4860
ttacactgta agtagggatg aggtaaatat gcagttttgg gaggatagac gtgttgttta 4920
taccttactc actcgcccta cgaatggcgc aaggatcgtc catgacgcca cgccaaggtc 4980
cctccatcga ggtcgtatat tctggaagct cgcaaattgt tcgacattcc ttcaggttgg 5040
atcccaggtc atagcagcca cggatatagac tcgctgcttg gcgtctacaa gccaagccgc 5100
tacgccgga atttaaagat ggcgcacaaa tcagagtgtc gcactttaca acgtggccag 5160
gatcagccgg ccgtgccata ctcagtactc atagtcaggt cattgctgtg agactgatcc 5220
ccactaaaag cactaacatt atctctcgct ctgcacctg ggggctgttt ggatgggttg 5280
gcgggatgac tgacagcaat atgatctatt taggatggat catgcattat atcctaggca 5340
tgggatgaat tagggctatc gtgccaatga tgagtctctg taaagtgtgg ctggaactcg 5400
acatgtggct ggaacccgag agcctagaca gctattatac ttaggtactt cttcggagta 5460

gtactccgta tggagacatc ttcagcagtc gaatctttgg atacgcattc aggaacgggt 5520
 ttgatgagta cattatgata cgctactat ttaccgccgt tcaaggtcta gtcgtcctat 5580
 taatcctcgc gcaacatcaa actgtgcttg acagctggaa agtatgctaa gttaagggtc 5640
 aagtgcctga aaggattagt tgctgctgtg ggccggcgtct aggcgtctac gtagtctcgt 5700
 ctgggttccaa ctgggtcaga tgggcgacgg ggacggaagg cggagaaaaa tcaaacgtag 5760
 aaaagaagaa gaaacaagac agggagttag atgagggcaa aaagaaagac aatggctaag 5820
 aaaaggggtt atatggaaac atgcatccac tagacttttc ttacacaat gccaggttc 5880
 cccatcgcaa ggcagggaca gggcgggctg gaaatgagaa tgcagaaagg gaagagcaag 5940
 tacaagacaa gacgagatca tggataacag gtcactgccg ttcttcagac ttgatgccgc 6000
 tcatctcctc atctccgtca tcaactctac tgccactctc atcgtcctgt tcgtattcct 6060
 gcgcggcgggt ctgtccttga ggacggcctc tcaggcaggg gttattcgaa gtctcataga 6120
 agaagagcct ccctttcaac gcatggttct cgctccgcag gctctcgata tagctcaggg 6180
 cgctgtctat gattgtcgtt ttccggcagg tatactggcg gcgtgcagaa gacgacgacg 6240
 aggaagaaaa ggtagtattc cctttcctcg accccgacga cgacggcgat gaccgcggcg 6300
 aggagcaagg cgagcacgag tacggctcgg tccccttggt gacgatggtc tccagcagat 6360
 gaaactttct gttgaggttc tcgcggtacc gcttttcaac aacattatgg gatgcccgtc 6420
 ggttctggtg cttcagcttc tgggtgcgtt cgcgctcgag atcacgcacg ttgagggacg 6480
 gggctgagct tcgacgggga cctaggtccg cccgtggagg aaataagttg ctctctagcc 6540
 ctggcttttc aaacgggacg gtgccgaagg gatataagag tggcgggccc ggttggggcc 6600
 cgatctggag gggattggta tcaaacttga ggtccgacac ggcggtcgag gcctctggct 6660
 cttcggtgga ggtgtcgggg tagggtcgaa agtggaaatt aaggaggtca ttgttcggta 6720
 atgaggactg gcctagcatt agtaaagggt actctttcat acccgagata ccgcaagggt 6780
 gaaagaggag ggagaggagg gggacagctt acatcgggga atgtcccgtc aaagccaagg 6840
 agctcataag ggctctcgat agcatctgct ggcggtgcac tgcccacaaa agaaaacaac 6900
 gacatggcgc cctgtgaaga cggcggccag cagtcaacag tccctgggaa ggccgagacg 6960
 gccggttttg tgatgggttg cggagggccc ctggggacct gctggagggg ataggctgta 7020
 ggatcggcgt tggcaggtaa tggagcaggg aaggacgagg tcgtagcctg agtcatctcg 7080

ggtttagtct agaaaatcat ggagaggcga gtgtggccac ggtgaaaaca ggctatagaa 7140
 ggagaatgct cgttgatcgc tgctgtgct agcatcttca tagctgtccc ggcccagata 7200
 taagtacgcc ataaaacacc aaaaccagga aacatgacct aaattgagag catattattg 7260
 aaataatcac tggctggata tttcggaggt tgccgaatgg gttatagttc ggccaatata 7320
 gcggtcatag tgttttaata gcaatcgacg gggcgctgcg gtggactggg cggttgtagg 7380
 ggaggaaggg cggctctctt gcgtaagccg cggctctatga aaagcttaac agagctttta 7440
 agactggaat gtaccatcag tggtggaag gataagccgg tcagtgaaga tgttgcattc 7500
 tcatctatgg caacgggctc ggagccggcc aggtccagaa ctaataggct ggaagccatc 7560
 agagtttggc aatgacctcc gagtcaagcc ttgaggagat gacttgtcga gagctgggca 7620
 atttggctgc cgtcacagct gtcaccgat tgacaggccg ggaaacatgg aacctcgctg 7680
 gacggcgatg gcgtttctgg tacctttcta gcaccttcgc ggatcgagnt ccttcctggc 7740
 caggtataag acagactaca gaaggtatag tggtg 7775

<210> 5909
 <211> 5822
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5909
 tcctactgct ctgggaggaa gggaggatag cgttgggcca actcgccccg aacgttccat 60
 ttgcaagggt accatgcgcg acttgggaagt ctacaccac cggtagagta tagataagag 120
 attaaggaag agaatcgga gtctgatgtc tctatctagc atcgaatatt cgggggagct 180
 accggtagaa atagaagaca actgattctt gacgcgagga tgcctaagga ccattgggcg 240
 aaagtaccag tgattcagtc cagtttctgc gtatttaacc tttccagccg ctgcgaggct 300
 gggattgctc tttaccgact aggaaagatc ttctggctcg gacgatatag tgatcaggaa 360
 ggctactgag agtctaagca aagatcccag aaccgtcaaa agacgaacgg cttttagaga 420
 ctgatggttt gataagctcc aaaatatttg accgggtcaa tttttttttt ttttttgcgc 480
 cgtttaccg cgcttggttg aatttcttca ctttgacatt ctggaaagg agatatctta 540
 tatccacgt caactcgatg accttgacc acacaaccac gccctctagt cttactctgt 600
 tatatcaatt ttctagataa gcctgccatt gtattatct gtcacgcaa atcaatcatt 660

gttcctgcgg cgttgtggct ggcgtttgcc caattaggat gtctcgccga ggcccgtta 720
tcgttgccca gcggtacagg aggaccaatc cccagggctg tcgcttggtg attggctatc 780
tggccaaata tggtatcatt ctctaaccg gttagtttac ggttttggga agacaagttt 840
ttcttttttt tttttctatt tccttttttt tgcttcaatg atccccgagac atttcagctt 900
tagcttgacc actaccatga cactcaatgg ttagtgaaga taacggaccc gtatgcaaaa 960
aaaccctac cagtaatgtt gaattaaaca ggtaccagta actacactgg gtatgtctca 1020
agcgataact gagacctgtt cgctgccatc cactgtcatg cagtgtatct aattatggct 1080
atgaatgcac tgcaatggac cacagtaatc caaggttgcg gctttcaggc ctgtcaacag 1140
ccctaaaggt cagcttttgc ggatgccgtg gtttcagatc tgctctatat aatcgtcttg 1200
tcccttccaa gggctcttct cgcctccta gccatcgctc agatatcttg tcaactcgta 1260
gaccagtcac tacttgacta ttccgctcgc ttacattcgt caaaatgcgt ctcgtccttg 1320
cttctctctt gctgcctctc gcagtctccg ttggaggtaa aatattatcc agacttagct 1380
ttcagaagcc tcggctgacc ttatcactcc agctctgcag gttaccgagc ccgagaaggg 1440
cgccgagatt gacccttcga gctccttcac tgtgaagtgg gattccgtca ggtatacctt 1500
cccaccaag actatttaac cgcatacggg gtgtcgaaac taatgacgag actagcactg 1560
accctcctc cttcgacctc taccttgtaa acaacgccgt gtatcccagc gtcgagaaga 1620
agatcgctc ggatgttgat acgtcggaag gctcttatac cgttgacggc gtttctggtc 1680
ttgaaaacgg gtgagcgctc agccctatcc atctgtattt ggaccatagc attgctaacg 1740
aaaacagggg cggctaccag atcaatctct tctcaactcc ggtcataaca ccagcatcct 1800
tgctgcatct gagcagttca atgtgaccgg ggcagacagc acctcggtca gcaccttgag 1860
caccaccacc cctacctcta cctctagcaa atcgactggg actgagtcta ctacttccac 1920
ctctaccggc acaagcacga ctctctcgtc cactacgcc actaccgagt cagagtctgc 1980
ttccgtgact ccgtcttctt cggggtcgtc tactccaagt tcttctaacg ctactgctag 2040
cgctaccggc actccggacg atcccaatgg cgggtgtaca atcggtactc ccttggcagt 2100
ccttgctggc ttggttggtg gcgctgtgct gttcaccctc taagatcaat gggatctgat 2160
accgtgctaa ggacaaaaac caagcgccag cttattttgt tggccgcat aagttgccga 2220
tcaagatagc acgcgaatct aagcacggtg tcgtaggata tgaatggcgg ctttcttttag 2280

atatgattgt ggtattgttc aggcctggat tttctttatg caaggaggct gcacagtcgc 2340
 ggttggattc gtttaatgtt agtacggatt agaatagaat gaaggactag aataataatt 2400
 atcctcggat tgacatatac tggaaaattt atttcaataa tttacatata tgtacacgta 2460
 gaacgtcctt gacaatctag ttgctctaaa tacctttaaa ggctgagagc tcacttacac 2520
 aaggacggat aagcatacat ggcaacgata aacaatgaaa gtagacatca aagtctacgc 2580
 cggactactaa cgtccactaa acccggttct cactgacgc gcccgatca gctgaaggat 2640
 ctgtatcggc tctgtcggta aatattggcc caccgtacca cagggcgcag tggagcaagg 2700
 tattttatga cagctcgat aacaaactct gtctcagaag ctccgagaca tgacaatgtc 2760
 cctgttctt agacgttgac caatttatga gtaatattaa tgactcggca ataacctgtc 2820
 agggatgccg gcaagccagc tgtctagagc tgaccagct aaaatgggac aaaggcaggt 2880
 accatggttc ccaccgacca ttgagtttgc aattggcagt ggatgaactg gtctgaattc 2940
 atgtttcagt tacgttgtc attattctac taggtaatct atattaggct ggtcagggtt 3000
 ttctatttgc gtctctggct tcttagatag cgtggtaaat gttcacatca ctgtcacgag 3060
 acacggtcag ttgctcgaat aataggccgg gtcagtcagg aatggagaac ttacaaatca 3120
 ctgtgaatct tttcgcttc aagttcagta acagcctgag caggaacca aacactgacg 3180
 ctcaagtcct caacagggaa caaccatgc ccacaatgt caataatgac tgggtggtgcc 3240
 tgtgggcgca acaaatctgt cactcctcg cctgcccgtc cgggaccgac gtacatgcgc 3300
 ttcgaagcag gaccgtcatt gctcatgacg catgcttggc cggacggacg acagccgtat 3360
 ccatagcgga tgaatcctac ccacaattgg tggtagagag acaatccaaa gcagtatttt 3420
 tgttggtaca aacctcaaca tttccttgat tcacaaacat attagatgtt tatcttatct 3480
 tgctaagctc ccttaatgtg ataagtatta ataatcgga gcgagagacg agatatagtg 3540
 tttgaaaacg gcggcagaaa atgatagaca tgaccaagac tctatcgcta atattctatg 3600
 cgagtccaac gtagagggtg agtttggaa tccgctggat agcggtatcg agatcgctgt 3660
 cgctgataag gtcgacgtag gcgcccgcg cctcatcctt gtattgcacc acgatctcgt 3720
 cattgatctt caaccggtcc ataagctttt ctttagctg ctggacattg atatcgctcg 3780
 ggacgcggat agcaatgaga tcgtcttggg aattgacctt gactttcaaa gcaccaccac 3840
 ttgaggttga gacttgagta agagaacttt gctgtcggac catggggggc tttccgttgg 3900

gaatagagct ggaagtctga gatcgctggt gcgagtggga gtgtgaatgg gagtgagagt 3960
 gagagcttcg ttccgaaggc ccattctggt gttgcgacga ttgccttgag gcgctgggag 4020
 aaagctcatg gccagacgag tgctgcgagc cgcctgagaa ccgggcatct tctccaaaag 4080
 cactcgggtc aatctcgaag tcgcctggac gaggcgcgaa gagctgacgg acgagagcgc 4140
 atcgggtgat gtgtggaggc atagccaaga gcttcttgat atattcatcc aaattatgcc 4200
 ggcggccgctc agaaatggca tcggtaacgt gagcgacagg accgggcatg aatggtaggg 4260
 ttcggggttt gccccgattg cctgcctcct cctcaaatg ggtcaacaga gcaatctgga 4320
 aatcataaaa gtcgtggtag tatcgcgaca gctcccagca gcgaccgtcc tccatcttaa 4380
 cttcaatgat gtaccagtac ttatcattgt cgaagcagta ccgagggatc gaggcagcaa 4440
 tgggtgcgac taagggttgc tgactgtggg gcggcggttg ctgatgggta gacggggcaa 4500
 tagacgcctt gctcgcgttt cggttatggt acgcctgtac atggttaggtc gaagatgaat 4560
 cccgctagag tattgactta cattagcatg gccgttttga ctcatgtggc tcacatggtc 4620
 cgcgctctgt cgcactgaca tcctctccat acccgaagtg acggattgca tggagccagt 4680
 cgtctcgatt ttacctagac tgatgctgct gtttttatat tcggcagtca tctttttcca 4740
 ctctccact tttggaacac cagcgcgcct gacagcctcg agcgggtctg caacagcctg 4800
 cccactctgc atgtcacgaa gctcgataaa cgaaacggga atcaggccgg gacccccaaag 4860
 gcgaccgatg ggttttgcga cgaaccattc agggttcgat tgggcgatga cgatgatggc 4920
 ctgcctgct ttggcgtcta actcatcggg ccgttcagcc tggaaatcgt actgaacgac 4980
 cccatacacc atggcgctc cgccggcttt gccatcatg gaagttcggg ggaatgcggg 5040
 gtgcgactga taagacttag aggagcctga accaaattca gaacctgaag aagtagcgcg 5100
 atcagcgaag ccagagtcgt gcggttcctt tttcttgccc aggtcgatgg atccgctgct 5160
 gtctcgctgg gttttgcga taacttcgaa aaaggtcacg ggaaccagcc ccctggcggt 5220
 agggataagg ggattgcacg cttcgtacca gtccgagtcg tcttccctgc tgataacgtg 5280
 gaagaaatcg cccttgctaa atgccaattc ctgggtgttc cctgggttcgg gttgataatc 5340
 gtagagagcc ttgatgacct gtacgcgttc gacggatggt cagcacggga tgaaggagga 5400
 gatagtacag agtaaacaat gtaaaaagtg taaatagaga gggacaggca acaaaagact 5460
 ggataataga aagacggagc gaaaagagag ataaagcgca cgcaccttct ttggaggcag 5520

aatggcaacg gcggacttgg gcgtaatgga cagatggtgg tgctgctggt ggtggtgctg 5580
 gtggtggtgg tggggtttgg aatccttctc ccctttcagg gagcgtcgga gagcctaaaa 5640
 tttgtggtgt taatgttgat cgctaataca gagcacaggg ccaaggcggt gatgctctgc 5700
 aatttcctgg agttgtgccc cgacaatcgc aataaccatc agagaacagg acactctacc 5760
 ttcattgttta gattatctcg tatgtaaata gtaaaaagtc gtcgagtctt tagtgaatgt 5820
 ga 5822

<210> 5910
 <211> 10319
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5910
 gagtgtccca agtatttaat gacgagataa gcttttgctt gtgcttttct tatectctct 60
 ctgtttacag tcattcaatt caaatcgcg tctgcatctc tttcaaccct ctgtctacgt 120
 cctggtgaca ccacaaaagg caaagaaaga aaaaacgaag agaaaaagac aacaagatga 180
 agctcgcagc cgccctcgtt gtagtcttcc tcttcggcac cgccacgct atccccaatt 240
 caccggcacc ggcacaagaa ctcgagcagc agcgagttcg cttcttggtc cccgacaacg 300
 tgacagtcaa acaggggagc tccaaatgcg gcgaccaagc gcagctatca tgctgaaatg 360
 aagtggaata cgcaggtgat actaccaagg tgactagcgg gccgctgagt ggctttttgg 420
 gcagtggatc tgggtgcagaa gggctgggtc tgttttcgca gtgctcgaag ctggatatgg 480
 ctcgtgagtg cacactcgcc atacctatca ttgctgcttt taagaggtga ttgtgattgt 540
 gatgttctaa cattagctat cttgatgcgt tttagtgtt ctcgcggaac atatcctgaa 600
 tcaacagtgc aagcagaata tcgtttgctg tgtagggata agcattcggc ggtatgtcct 660
 gccctactt cattgccata tccgctgcaa gtaagtatgt aagaaatgaa gcggactgac 720
 tctgaaacag gataatgac tcacgggtgt ctactgccc tgcattgcgc tgggatctct 780
 gctctagtcc ctgctcacgg aaggaagaca gtccgtgtga gatatcgag tccgctatca 840
 tgagccttcc ggtgcaaggc gctatttgct ttgtgtttaa ggctcgactt gccaggaggt 900
 cagtgttggg acgagggaca aagtttgctg caggcactgt ggctttttat acagcttggg 960
 cttccgctgc tgatacatta ctaatcttcc ttcttagaaa caaatcttca acctaattga 1020

ttttgatcct	tcgataccat	ggctatacta	ttcgattata	tccacaagga	ctaatgaact	1080
tgtattccag	ctgatcagta	aactggctct	cttttctggc	agagtgttcc	tcaggtcagt	1140
aggaacaaca	gcccttgctg	atgaggggtc	cagtcctact	ttggccttac	attgcataac	1200
tgcaatgaat	gcctcagtta	ttactttggc	tggaaccgcc	aattgtacta	cgcagctgcc	1260
aggctatctg	cggccgtgat	ggctccatth	ctcgtcttgt	gaggcttcgg	aaattcagtg	1320
ctttgagcct	tgacgcgatt	ctccagaaac	tgaaaactat	acgcagtgtt	agaggatata	1380
gaggagagac	cagcgtgacg	attattgaag	aaaaaagaat	agtcactgct	tttcagttta	1440
ccccgtcttt	catcgtatat	gggtaagctt	tccctctctt	gccaaactgcg	gacagctacg	1500
gagtaacca	gtcatgaagc	tgggagaagc	tgaatattat	tagaactactg	cccatagact	1560
acggaaaggt	gcaaaaggca	atacagggtc	tctatgtatt	agcactgtcc	cccaaccctt	1620
actttgctgc	atcgacgaga	tgagcaatgc	cagcccctac	tccttctctc	aggctgtcat	1680
gtgtatttca	gcagtgaatg	tactggtgcg	tatttccgct	catttggggc	agcccaagca	1740
gcggaagaag	aagctcatat	cgcgtctggt	catggtcata	ttaggtgccg	cccatctctt	1800
taccgttgca	aaaaacctcc	acggaggttg	agatcgatac	tgtgacatac	atcatataag	1860
acaaggaagc	agaactggcg	aggtaagttc	agagtttcta	tcaatgcgag	ataggtcagg	1920
gctaggcggt	gccgctactg	atctatttca	tgtaaagtgc	aatactcgaa	atccctgtta	1980
catacttgac	ttctcaacgg	gcaaaaaacat	aaagcgtgtg	tgggactgct	gcttctgaag	2040
cgtgataaag	agttttgcag	aaccgtaatg	tctttgttgt	gctcgcgata	taatgcagta	2100
cgtctatttg	gttacggtag	tctcatttct	ggaagtctac	aggctcagtt	gagagagata	2160
cgaaggggaa	tgcatcagtg	gagcgttcag	ggcccctttg	tcagcctacc	agttgtctat	2220
cgttgatctc	gctcaacaca	gagatttggt	tagagatatg	ttgcagttac	taccaactta	2280
ggtaggtata	tgcttgcaat	gcattgatta	tgttatgtta	gaatggcgta	tgatcatact	2340
gttccggcca	cctctactcc	cccccaagat	acgagaccga	cgaatcgaaa	attgaggttg	2400
actgctgtac	tgtgctcagtg	tctctgatata	tgcatctggt	tgggaccgac	gaacagttag	2460
tacaccgtct	tcaacttcag	gtgaagggcg	gtagctcacc	ccatcatgga	agccgttcca	2520
tacgtaccaa	atcaatgggc	acatactact	tggtcagagc	cttgagaaaa	atcgagaggg	2580
cgaagacaat	ggcgttggtt	gtaaggatcg	cagtcggggc	tttcgtaccc	tatcgcgggc	2640

cttctgccaa	ttgttcacgc	tggttgtcct	caatgaaaca	gttaccctt	tcaggttcta	2700
aatattttta	gggatcttca	cctacataaa	cataacacta	gctgggctga	cagcaaactt	2760
atccaaaccg	ccaaagccct	gcattacctc	aagggtaaat	ttacgaactt	gtcttgcgga	2820
gtccggattt	ccagcccttg	aagcagctca	accagctcgc	ctggagctac	actgagtgtc	2880
atactgtcca	gtctcagtgc	accacagttc	aggcgcaaag	gcctgcgttt	cactgggttg	2940
atggacttct	aagattctgt	tgattgagca	agtgatacag	gtcaagtgac	ttccagccct	3000
aagttacctg	agtagatcct	aattacaaca	ttgatcaatc	tttgtccata	gcatggggac	3060
atgagttatt	ggcagctgtg	gagaacgata	gacacgacta	cagactcgga	atatgatgtc	3120
ttgtagacaa	gggtgtcacc	tgggtccagc	tgaagcttct	tgtatccaaa	cgctgttcta	3180
acctgtact	tcctcttct	agactcaaat	ttcttttaga	taataaaactc	aggaagagcc	3240
tacttcgtag	ccataaaactc	aaggtatagc	tacaaaaaaa	gcctcttgag	attcgtgagt	3300
tccagttcgc	ctggatcctt	agggtgactg	aacggcgga	attgtcgcct	taatgagatt	3360
gacaccacat	gccaaatcaa	ggagatattg	attctagaga	taaagaacat	gcaaaagaaa	3420
cctcctattc	ttgccccgcc	gcctggcggc	atggaatcgc	cttgaggag	gctgacaaaa	3480
gacattcgga	ctgccctgaa	gccccgagcg	tgctttcaat	gctatggaaa	ccgcaccacg	3540
ggttttgaca	atcggcgtct	taagcagtac	tcccgccaca	aaggctctgt	gcgacacttc	3600
caagctgagc	atcgaggatc	gtcactgtaa	ctacggcaac	gagtcggcag	acaatgaggt	3660
gtattggcga	aggcataccg	tagacaagca	tcgcttgaat	gtcatacctt	ggggactgcc	3720
ctcatgatct	ttgagtatat	tagagaagag	tttcttgccc	aagagcatat	ttactttaat	3780
aagttaagga	aaagttagct	agtgaataa	agtgtgatgg	cagaaacgaa	atccccatca	3840
aataatatgc	tagttcaacc	ttaggcttgc	ttcctgtttt	catgtcctcg	gtagagatt	3900
tctgacgtct	cgctggatgt	atcagagcgt	tctgctggga	agagagtata	ggattttggc	3960
cgacagagaa	aagagccaat	gatagattcg	ttcgctctc	aaacatagat	gatatctggg	4020
atagcaacta	tgtcttatat	ttacgccgca	ataagtaact	gccagagatg	gttggtttga	4080
ttacgtcatc	cgaaccgtgc	ccccgcaggc	agctataggg	cttgggtccc	aatttggcgg	4140
tcgccagcga	cctcatgtag	agaggtataa	agatggtcac	caattttagt	taactatcgt	4200
ccgccgagac	taacctgaac	ccctaagcct	ctaaactaat	aaccttggtg	cgaaaatatc	4260

atgtatgcga	taaactcgct	gaggccacgt	gatatggcgg	cttgttcgcg	gtctacaacc	4320
cttgaggatc	tgacccctca	ttgtgttgag	agcaatgaag	gattaagcat	ctatcagaga	4380
atacatagag	agataatcgt	catagtggca	tccgaatctt	agcagactac	gcgtgtgtag	4440
tcgatacggc	tatattcgcc	cttcttcttc	ctgagcctac	atggagatgc	cacatcaaac	4500
ctcgaaaaaa	gccactcaag	cacttgatgc	cattcaccaa	gagagacaca	taaaatgact	4560
cgaagcttcg	cggactttcc	ggtggaata	taatccagat	gatcgccagc	tacctcccca	4620
acagcagcat	caagaccctt	cgtatgactt	gcaaaccctt	ctgcaacacc	gtcagccttc	4680
gccttgaccg	tgcttttctc	tgggcaaacc	cactcaatat	tgctgtcttt	cgcgcaatcg	4740
cagacagtga	gagattccgc	catggaattg	aagaaattat	ctgggatgat	gcacgcttca	4800
tcaaagcccc	gctgggcgag	ttccacatcg	ctgacgagcg	agaggatctc	tggattgatg	4860
aggagactgg	atgccctgag	tggtttgtca	attcctgtaa	agaaaacagg	aaagaccttg	4920
agatgggcaa	ctaccccgac	cagggccgca	tcgagcaaat	cgcacttata	gaggagcaag	4980
ctgctgccga	gccgcccttg	aagatcttct	ggcaatatta	ccaaaatctg	ctccagcagc	5040
aagaggacac	aattatcttt	gatatggatg	ctgaggccct	ggagtacggg	ctgcgccggg	5100
ttccagctct	caagagggtg	accatcacgc	ctgcagtgca	cggctggctt	ttcacacccc	5160
tgtatgagac	gccgatgac	cgcgcgttcc	caaagggtt	caactacca	attccccgcg	5220
gctggccgga	caaccccgag	gggacgttca	caccagaagc	aacgccgtgg	gaggacgagg	5280
ccacacggaa	agactttcgg	ggcttcggca	ttgtaacgcg	cgcgctgggc	tcctatgcgg	5340
accaccatgt	ctctgagcta	attataactg	ctaacaccct	tcagacaggg	ctcaactgct	5400
gcgtcttcga	aacccataat	gcgcaataca	ctgactttgc	ggctatcctt	cgcaaaccgg	5460
gcttcgcccc	tctcgacctc	tcccttttag	tctgcggcca	ggaacgcacg	ggatggcccc	5520
cctatagggg	tggactttct	cgtcgcgtc	tcagtggagc	ccacggcctt	gaacatatta	5580
gtctatctac	aaatattgag	gaggaccggg	cgtccgacag	taccattcct	tggagcgcg	5640
gcggtcgtga	tcaactcgtc	cgcctccgca	caatcttccc	agttgatgag	tggaagtccc	5700
ttcgccattt	cagtctctct	ggctttcatg	tcgataagga	tgacatcatc	tccttctctt	5760
tcgcactacc	gccgaccctc	cgtccgtgt	atctgggggt	cctctacttt	gttgaccacg	5820
gtggctccta	ccgtgaactc	ctcatagaca	tgctgatca	actggactgg	cggaagcgag	5880

accctgcaga tagaccggtc gtctcgctcg ccaaacctac ctcttataat cggatcgggc 5940
 atgcggtctg gcttgataat gaggtatgtg agttcttgta cggggagggc gagaacccgt 6000
 tttggagtcg tggattgct gtggatgcc aaggactgat tcgggatgcg tttctgcctg 6060
 gagtcgagtg gaagaatgaa ggcgactagg ggagcgggct tggggtaaga caggggctgt 6120
 ttcttttatt ttctttctac aagagcgaga tagatggctg aacatgtgta tatacctggc 6180
 cactatatgc agaggggtta tatgcagcta gtacatgatg ttatccatta ccactttttc 6240
 ttactattct ttttttggg agcttcaa at tcgaagagag tgtacacacc attaaggaga 6300
 actatctttc tccttaacct actcattttt taactttttt ttagaaaaga cgaaaaataa 6360
 ggaactatgc tagcccagca catacataca catccgctg caaccccgag gacctgcacg 6420
 ttctgatccc tcgagtcgat ggccaggcga ccatgggtac caagaagggtg acagcatgcg 6480
 ggaacagtca ctggctgact ggcgactggc gttatccggc atttccagc cgtcctgact 6540
 acgactggga aggaatcgag aatggcgcg cggactctat ctcatgctac tggggcaata 6600
 cctcggacag ctgctccaac tgggcagtag gaggcctgac cagccacgat accagatggg 6660
 ccaggacac gaatggcagc ccaacgagga taagaacgaa ttatcagagt acgaatattc 6720
 cctttccttg gggctatctg gtagaactga cacattgctc cagccgaaca tgtctttgaa 6780
 ggccagctca ttggcgactt ctttgattgg tggctggagc agggcaagat aaagaaccag 6840
 aggccaatac ctgccagcgc aagcagcaag ttcccttggt cgagttcaga agactatttc 6900
 ctgagaccgc gcgcctacta cccatggaca cttgacggaa aacaaactgc atttatcaac 6960
 gttctcctgt ccgagctagg tagcaaaaac cgcttgacc gactgacgat catgcttgca 7020
 agaccgaatg ggaaaaaag gcagcatgag gcaccttgag caccttgagc actacctttg 7080
 tattgaatct aactttgccc ttgctccaga tgtttacggg caacgagcca acagaccgag 7140
 acaaatacaa gcgcatggac aaagacgctc aattgcagcc tgtttaaaga ggtgggtaag 7200
 ccttactgag tccactacta ttatcccat gtgccatgc tcaccatgtc gttcgctcag 7260
 gcttgatcgt cagctacctc aataaccagg aagtatggga caagttctgc tccacatatg 7320
 aagcaatcta cggccacttt ggctcgtagg acaactggca cagacaggcc gggtagctgc 7380
 cggcccgtc cctcaatgc aagacgagtg gaaggaatat attcgctgg tcctagattc 7440
 attcgtccta cgggcacggg atacttttga tttcatgctt cgagaacgca agtaagttct 7500

tttccccttg	cggcctgcta	tatagcctgt	atatatgcat	actaacgtaa	gcgtagaact	7560
actcatctcc	tcgccactga	tccgcccttc	gacggtcact	ggttgtctaa	ccggtttgtc	7620
attagaatgt	ttctaagggt	gtccttgggg	tgcaacaata	tggatgcttc	cagggataaa	7680
agacgtgcat	ataacacata	ttcgaagtgt	atagtctcaa	cttctatcac	tcatagttgc	7740
tgcctttcta	accgttcacc	ccttcacccc	tgctctggca	caccacaggt	gcctgtcctg	7800
ctgttattgc	agatctacag	atctgccttc	acaacatgcc	cacgccatcc	cactgccctg	7860
tctgtggatg	cctgttagga	aatgagacgg	ttaggtcttg	catattcggt	gatctcctat	7920
attgagctgc	tgctttaccg	aagcgacttc	aagcagacct	gcaatggtac	cgcagtcaag	7980
tatatatcaa	cattgcgtgg	aggatttgtc	tttggcgcaa	ggcaaaaccg	catatttcaa	8040
gaagcttcta	gtagatctg	tcaagcatca	tgcttcgatt	atgccagaat	agccccccgt	8100
tttccaaggc	attaggccaa	gatcttgaat	gtcgcacccg	catattgagt	atgtccttat	8160
tcaacgatag	taacgttaat	agcatgccc	tatacctctg	gtgaccctct	ctttccttac	8220
cttgctattg	aatccagacg	tacctacacc	acgctgttcc	ctcaaacatc	caagaggccc	8280
aggaattgca	tgataattca	gccaagacta	ccctcctgga	aatgcaaact	ggcagactaa	8340
gcagataatg	tgaaacatcc	aaagtatggc	aatatttcag	ggtgaatcag	gacctgggag	8400
tgatggtatc	caagttggcc	atttcttttg	accagaacac	ccacatcaac	ccattattag	8460
agtcaactgt	ttcgattttt	gtgagaaatc	tacagaagtg	tcacggaggt	gttgctcagt	8520
tgaagcaact	aaacgcgtat	tagcagcaga	tcatagctgg	acagaaatac	cactttacac	8580
agcagatgcg	acacttgaag	acttgcgggg	tattgtccag	gaatcctggc	agcataatac	8640
tacactagga	atatgtcgat	aaaataaaat	agttctcggt	aagagaaccg	tactgtgaga	8700
tataactcta	aatatgatga	ctatatctgg	acaatcgaga	tccgttttaa	aaagcgaaca	8760
cgagtttctc	tgacaaagg	aggggccgag	atcttatatg	atcattagac	cgttggctgc	8820
gtggtaatcc	tcaactagag	atggaacgat	tgtcgatgga	caagagtcaa	tctgggtcca	8880
actatccaga	gatcaagaca	acttcgacaa	tccgttggtc	tattctaata	ggagctgatc	8940
tttcagcatc	ttcttttctt	aatgtgtcgt	tgaaacttaa	tggctctgct	ctgcgtgtaa	9000
aatctgggct	tcggttgtgc	tcctgaaagc	gcaagctatc	aacgaggcga	atatccttca	9060
gacacagggc	gtttgcgttt	cttttggtgc	agccctggag	accactatct	ttaccgtgaa	9120

tagtgaatag agaaacgtat aactccgtct ttctgtggat gatattgttg caaaaactgc 9180
 cctaaccgcg tattcataag taccaataaa aaaggacagc gcctgaaaag aaaacatgcg 9240
 gccgaacacg gccctttccc cgtgagtata ttctttgctt ctttagaccg catgtcagct 9300
 tgagggactt gagatgttgg ggtaaagagg aaaggcacct ttgaggtggg agaagagatt 9360
 cctgatgagc cgccgataac aggcaagctg tagttggcag ctataatgaa tttcagcttg 9420
 ttaagagatg cgatatccaa taagcacgta ctaatgcttt atgtcgatat cgattaaagg 9480
 caatgaaatc aaaagccgca ggaggtgggt gatctgctgg caccttggga aaaaagaact 9540
 gctcgatgga tactgcttct tgataacaag aatatatgtg cagattgtga cctgcgcaac 9600
 aacgtggact taagaggctt taaactacaa gaattacaat cagcgggaga agtggtgagt 9660
 gagggttaga gaggtagttc gtctcctttg tggcagaagt tcaggcatgg ccagtctata 9720
 tagaagatat cgaaactcgg ttttggcatg gggtagctaa tgaagatgaa cctaaacaca 9780
 gtttttatca cataagcctt ataggaaatc ccattcttgg gattttttct cttccgcgag 9840
 cttcatatcc tggccgctga aagtgttgca ctgggggctc tgagagagcc taaaacgata 9900
 attcatgctt cgctagaatt tggctattgg cgccaacgtg ccatgatagg ttacaagaat 9960
 ctcgaccggc accaaaggct ctttacgtga agtttttgcc aattacaacg gagcaatgaa 10020
 gagagtgcac ggagcaacgg gtaagcatac gggcaaggat aagggtcaagg ggagtgtgcg 10080
 atacgtttct ctagacagcc ctcccataaa aagagaatag actagtgtg cttttgttcc 10140
 ggtggaagag aaaggcatag acagtaaaag ttgcataggc agtaaaagt gcgtctaagc 10200
 tgattatagc gttgtatgct tgcgctagag tgatctgaag tgtatagaac gtactctaag 10260
 ctttctcggc cggctacctt ggcgagacat ctatactcgt caataaactc gctgctgtt 10319

<210> 5911
 <211> 6838
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5911

gcctctcatc ttacggcctc ctggcccagc tctccacggc tattgcctaa cctcacagcc 60
 tgtcttttcc ttccgcgttg ttagccactc gctctgatat taccagcca agtaaccac 120
 ctatccgact tatccaacca ccataaaga taaacacca caatagttaa ggccttgaac 180

atgatcagca gctggtatcc gtaattaaag tgcggcgcat catacgtagg aaacgtcagg 240
 agcgggaccc acgccatgaa gttataggtg aagatattgc cagtcgccac gagcatctgc 300
 cgcaactcgg cgttcttttg ggtaccttcc tggcccatg cctgtatttc atcagcctgt 360
 tgcctatata ccggtctga tgcgatgagg aagtggaaaa gtgaacctat gatgatcaac 420
 agctgcgcag ccgcactaac aaagctgagg aaaaacgcga acaacagggc ggctctcgaa 480
 atatccccga tggagagtat gatatttgcg gatataccaa tgacacacac gatagcgcaa 540
 cactccttgc gtctgccggt gcggtcggca attgtttcaa ataccaagga tgatatgacg 600
 ctgatgacat tcccgaatgt gggaatggtg ttaattgtgc ggtactgtat cattagtctt 660
 tgaaccacag gttgaaaaat ccgctgcctt gaccggcttg ggcaaccatg cttagcttga 720
 cggagaatag aggagacatc aaggatagga gacgtacagg tcaggaaaga taaacgcccc 780
 cagctgcaa cctgtatata tcttccgcag tttcttccag ggtaatctgt ctgatggagc 840
 gagggccatg ctgcctgtc tttggacagc atattctcgg tcctaagtag cagttgtcaa 900
 tcacaattcc tgcgcataatg actagaggaa cttggagcac tcaccttttt cgtcacccaa 960
 acgtctctgt cctactggga ctgtctggtg taacgaaata gggcctaaca tccaaatgac 1020
 atctcataga aggaagccca ccatgaagag tccaggatct accggcatca atgagatcca 1080
 acacttcgtc caaactccgt attgtatctc tggcaatggc attaccggta actagtttca 1140
 aaccatttc aggatactgc gctccctggc ccgggaagac ccagacaagg tctgcgggac 1200
 ctgcctttcg cacgggtgaa acgtcccagg agtccaggca gccacagca aatgcccgat 1260
 tggggagtat acggcggcgg catgctagag tgtagcttgc attcgcaacc ttagcagggt 1320
 ttttggctag aaaatccaaa ctgagtgtgt tgttgcgctt cactgtttct ggggtgggttc 1380
 ctgaaaagac tagcagctgg ggagtgcagc cactgggggc ttcattcaca aatgttccca 1440
 gaaaagacct agcggactct aggagaacct aatagcagat tagttggaag cctcttaatg 1500
 ccatcaatac acccatatgt ccattagctc ccccgattcc gaatccgttg agtccaacac 1560
 gctccgcttt gtctttcggc cacggctcac attccacggg aacacgaagg caagcaggtc 1620
 caaatggaac tatattaaat tagcagatac ttttaaatca gcaagaggga gtttactctt 1680
 cggatttggg gttgaaaaat tgatgttcgg ggggatcgtt tggttctcca aggccaacgt 1740
 cattttgatg atgctggtta gggctgatgc tccctcgcta tgcccaagggt taggttttac 1800

ctggagtggt tagccagaat gcagcctcaa gcgcgtattc ctcttactga tcctattaga 1860
 actcccccaa tatcaccgaa cacgttcgcg acggcccttc cttcctggac gtcacccacc 1920
 ttcgtcccag tcccgtgaca ctcgatcatg gccgtttgcg agaggtctga aataccagcc 1980
 agctggtgac aacgacggat gagaagctca tggctctccg ggctgggtat aaacacagga 2040
 gatctcggtc catccgagtt aatgcagaca gagcgaatga cagatcggat cggatcgccg 2100
 tcccggagcg cgtgggagag acgcttgatg tggatggcgt taactgcttc accacgcgcg 2160
 tagccatcag ctcgatgcac aaaagaccga cagtctccag ttggcgacat cacaccgagt 2220
 tcggacatag ttgttgatc gcgcggtgag aggatgagat tacagccgcc aacgacggcg 2280
 gatgagcact cccctgtata gagcgccctga caggccgcat gtaaagccat cattgaagaa 2340
 gagcaagcag tccgatagat catgcttggg ccagtgagac caagctcctt tgatagtcgg 2400
 ttcgagagcg caaagtcgct atagcccgcg acacagtga ttcctagccc ttgtggatct 2460
 ctggtttgaa tgtccatcca gtctcgcga agtgcaccta tatatagacc aatgtctctg 2520
 cctctgtaag cagcagtgc gctactttct aggcactcat aaactacctc catcagcaac 2580
 cgctgctgag ggtcaagaag gagcagctcc tttggcgga ttgaccagaa agagctgtca 2640
 acagccgcca ggtcgacgtc aaggaagtgc ccgtactctg tacagacatg accaagcttt 2700
 cccttcggac catggaaagc gtccacattg taacgggtccg caggcactcg acaacgaccg 2760
 ctcttttgt tgaccagaaa ctgccagaac tgctggggcg ttctaataga gcctggcaga 2820
 cgcagcccga cgccgactat ggcaatcggg tcgtcagccc aagaggctga tgtagtacga 2880
 ccagtttgag gggtggtttt cagacatgat aatgtttact taaagtgcag aatacgcgga 2940
 ggacaaagaa taagataaaa actgaggcaa gaaagcttct gatgaacatt catgaaaagc 3000
 gtactagtgc atccttatat gctatggcaa tccgagcagc tccgagaaca ttcataccag 3060
 ccaagctgat cttcatgatg attatgctag cctactgacg actgtattca tctgcacggg 3120
 agaacctgtt ctgagagcct tgatttctga tagaatccca aaaggaagg cagtcttacg 3180
 caggacatta actaaaatca atagaataga tcgccttgac gcttggaat cgatacggt 3240
 ggatcgaaaa cgtgcgcggt cgccaaaatc ctacgtagca tggctgcttg atcaatagtg 3300
 cgagcgatcg aaagtacgaa gcagaaaagct tacacctaaa tttaatgtca gtcaggcacc 3360
 cagcgaagaa ccatgtctgt tcctgataag gagacggaca taccaagctg cacttcccaa 3420

aacgtattaa gccatgcatg caccgataat ccgcatatgc actgacaatc taccaagagc 3480
 gcagatcgat cagaggacgg ttagtggcct agcctcaact atatctggcc acatgccgag 3540
 cagatcgtgt ttcaggctaa aagtccagca tgaaaccag gtaccaggca accttagaat 3600
 cactatgcca ggggtattcc atatttcttc gaaccgcgtc tgcctggcag atgaaatgct 3660
 gtctatggga cagctccccg tcagcttgct agcggcaaga caagcgatac aggacaaaag 3720
 gctacagccc acgatctgag gccggtcaga tcaatactct gccagtgtg gaagatcgct 3780
 gcgctaatac aggataaagc atccgctggg ccacccgcag tggcaggagc aacttcgcca 3840
 catcggcgtt gttcgggggc ggggttgctc ccgtgcacag tcttatccac tttctgaatc 3900
 aatagtcca tttatagtga atgagttagc taccattca tcgttgccat agttaagtt 3960
 tgtggaataa gaacgggatg atggcgggaa attgacttgg tgaggccgcc gagatttctg 4020
 ggggcagaaa gctggcagca cgtgacgatt aaacgaagca ccgaataata tatacacagg 4080
 ccggttaata taaaacatgt attaaactcc ttatcttccg tatatcgag gctgtacgcc 4140
 taaatccgct gcctggtaga ctagcttttt taccctgggt aattttaccc aagcttcgct 4200
 ctacagagaag gctatcagga ttcattggtg aatatcattg gccgaggtat tttaaaaata 4260
 ataagcaaca acaatcacga tgcggatgga acgagcagat ctggtatagg ttaaaatgct 4320
 gacaaattcg caggaaactt ccttaggttg ttcaagctga ctgactggac gaactgagct 4380
 cggatgatcg gttcgatcat ctgaggagct catacgccga agtcctccgg ctctctatgg 4440
 acggacggat gttcaagcca tgggtgggta accattctgg gcgcattata ttggctcttc 4500
 ttaccacccc tcgaacatca tattccagtt ttcggaggtc tgatccggct tggctgactg 4560
 attagccttc gaagctcaaa tcaatccttt gggccacttc caacctagag accggcctgg 4620
 tacctctgca atatactgag gcgtagggga tcgaccctat tgggagtttg aaggactgtg 4680
 tgccgatgat accatagctg ctaacttctt ttgttttcc aggcctttct ttttgagagc 4740
 tgtcgtttaa acgaggaaac ccaatgcgag gtatattgag aattgatctc ctggatctac 4800
 aggaaggtag ctagctcaag ttaagcttga gcacggccta tgcatactg tccgctgcgt 4860
 agtccgtctt gggcggggct actttcagtg aagcagacgg ctctaaacga caataggtac 4920
 gggcgatgag gtcataagt caatcgcaa tggctgcaga tgaaagctgg attgttcggc 4980
 agaaaggaat ctgtatatgt ccagagcaac gtgctggagt atcgctggca cgcagatgcc 5040

gtaataagag acagtttggc taaggagact tcggttataa cattagatag tcagctgaat 5100
 cacttcacta ggagtgaaca gtggtggtct ccggcctaag agggtagtgg gggagtttga 5160
 gtcccctagg gctagtagag tctttcaaac tgtagttct attcttactg tatggacaag 5220
 atcctggttg tgcgagacta ttgcataatg acgttgctag cgagtatgta ctgtaatctc 5280
 cgcaagggcc gctaacggat taatggattg aggagcaatc ttggagcgct gcttgtgatg 5340
 agaagccgtc tcttcggtta ttggtctgcg cggatgcgtt cccaatgaat caaatgttta 5400
 gatgcgtgac ttgatttgtt ttgccgtctc aatgtgccgg cgtttatctt aaactgtcca 5460
 cagagaatga tgacggtata ctctcttggt cggttttagat cgaggctccc caattcttag 5520
 aattgtatac ttcttgtcc gtctacaaac accggcagcg atggcttttc gctttctaaa 5580
 tttaaagtgt cgcttctcgg cgtctcaagt tcacatacta tggtgacact ttctcgatgc 5640
 gggtaatctc ccaagggaaa ggggcgtcta tggtatgatt gcctttgaat gaccctatct 5700
 aagaaatacc tatgaaaaat ctgtaatttc cagcagccgc gtggttgctt atgctcatac 5760
 tggacgctga cacgccaaat gtcgaaaata acaatagtca cctgcacata gaggcgttat 5820
 tgtaagaaac tctaaggcag acgcgaatag gggcttgac tgtgccatac agtatggcga 5880
 catctccaaa ccgaaaagaa tttgtcaaat ctccccagac ttgctgagat cgtagtagca 5940
 atgttcacgc tggagtcgat gccaccacct gccatataca gcggcagacc ctagtgtttt 6000
 ccgggaaacg catcaggtgc tagtcaaaga catccgtcga caaaaagggtg cacggacgaa 6060
 ctgctcccc tgccgagata gacaatggaa agaattaaga cgtaacctct ggggaatcaa 6120
 cagtgatggc gagatccgac gaggaccgcg agattagctg ccgtcatgcg accgacgtcg 6180
 atgtcaccaa tgcctatcat attaatatcc tctcatccct gaatggcaaa gcggcgggac 6240
 ggctgccta ggaggtactt ggacaatatc agaggctaga ctgcagccaa ctattcgatc 6300
 ccaagtgtat gcgctggtcc tcacaccact tgtaatgaac cacccatgtg ctagtccaag 6360
 accttactag ctatgacaat gctaagggat acccccggtc attgagactg atcttggcac 6420
 aatctcccg tgcgaattcac atacatggcc gggctctggat ccgagtgatt gcccgaaaa 6480
 tgagtctcaa gcggcggttg ctgccaagtg ggcagcctgc cagtagtatg ccacgaaatt 6540
 atcactgatt caagccaagc agtctccctc accctttctt attccgatca agcagccaag 6600
 tcatcggacg agtttgtggt cggagatgtc gacaccttgc attatcccat ccgtcgccat 6660

gccggccata aactcattca accataaccc gatcgagtat cacgagttcg ctttgatcgt 6720
aaattcgata tgcaggtagc cgttgaaata tatecttaaa tgtatccatc ccatgttttt 6780
gacacgccaa gatggcgatt gtatgtcggg agctgctagt tgggtgggcag ggacgaaa 6838

<210> 5912
<211> 10788
<212> DNA
<213> *Aspergillus nidulans*

<400> 5912

tgctttaccg tgagcagacc tcatccgaga tgtggaattc gtgatttttg acgaggtcca 60
ctacgtgaac gattttgaac gcggtgtcgt atgggaggag gttatcatca tgcttcctga 120
gcacgtcact ctcatccttc tttctgctac agtacccaat acccaggaat tcgcctcgtg 180
ggtgggcagg acgaaaaaaaa aggatattta tgtcatctcg accgcgaaga gacctgtacc 240
tcttgaacac tatctttggg ctggaaagga caagttcaag attgttgact ccaacaaaag 300
gttcctcgaa agcggctgga aacaagcaga tgatataata tccggcaagg acaagatcaa 360
agctcagaaa gcagcagaag ctcaagcgca gtctcaagca agcagagggtg gttcacaggg 420
acggggacgg ggacaagcgc ccgccagggg tggcccaggg ggaggggggag gaggacaacg 480
tggaggagga caacgaggcc gaggccagcc ggcaaaccga ggaacaggca acattgctcg 540
tacagggaga ggcggcggac gtacaactgc cgcacaggac aagactgtct ggggccaggt 600
tgtgcaacat ctgcgcaagg agaattctgt gccagcctgt atcttcgtat tttctaagaa 660
aagatgtgaa cagaacgccg actcattgtc caaccaggac ttttgcaatg cgtccgagaa 720
aagccttatt catataacga tcgaaaagtc cttactcga ctcaaacagg aagacaggac 780
gctgccgcag attcttcgac ttcgcgaact gctaagtcgc ggtattgctg ttcaccatgg 840
tgggcttcta ccgataatga aagaaatcgt cgagatcctg tttgccaaga ctcttgtaa 900
agttctcttc gccactgaga catttgccat gggcctgaac ctgcctacac gtacagtggg 960
cttctcggga tttcgcaagc atgatggcaa aggtttcaga gatctactgc ccggcgaata 1020
tacccaaata gcggggcgtg ccggtcgaag aggtctcgac aacgtcggct atgtgattgt 1080
tgtaactct ggcaaggacg aggcaccgcc tgctggagcg ttgagaaaga tgatcctcgg 1140
ggaccaacg aaacttcgat ccagttcag gctgacttat aacatgatcc tgaatctact 1200

gcgtgtggaa gctctgaaga ttgaagaaat gatcaagaga agtttcagcg aaaatgccac 1260
 ccaggccctg ctcccagagc acgagaaaca ggtacaaatt tctgaagcca gcttagaaaa 1320
 gatcaagcga gagccctgcg agatctgcga tgttgatctc gctgcctgtc atgatgcatc 1380
 gatcgagtat ggaaaattga cgagcgagct acacctcaac ctactttcat cgctgtcgg 1440
 caaacgcctt cttatgccga agcgcttagt tgtataccgg aaggtgatta atggatctcc 1500
 ataattagcc gcagcttaag ctgacacttt gcaggatgga taccgaaccg caggtgtcat 1560
 tgtgcgagaa gtcggagggg gccccaaacc cgtcatacag attctcgaga taggtaaact 1620
 gaacagcaag cgtcacccaa gcgagattct cccattcctt ccagcgttca ggggatttct 1680
 gaatcctcta ccgaccctg cgcgcgatat gactctgaaa gtttttaaga tcccaattgc 1740
 ggatatcgag tgcgtcacia acactatagt caaactgagt ggcccaacgt ggtacctcaa 1800
 tatcaagaaa ggttggctct aatgcatttg gtacaagggc cttgctgaca ttagtttaaa 1860
 gaggcaatca gattcgcaga caaggagcta tccaagctat gctcctcgtg gactactccg 1920
 gtctgggatg agctagattg ggctcgaatc aaggagctcc aattaaggga catcctagat 1980
 aaacgacgag agcaggcaaa tatcgcccag tcatgcgact gcctgaaatg ccccaaattc 2040
 ttgaaacacg tatgttcata ttctaccctt tgacgattcc tgccatactc acgacctttt 2100
 agtttgagat gcaacgtgat gagtggcaaa ttaaggagaa tatctcgag ttgaagcaac 2160
 tcatgtcgga tcagaacctc catctactcc cagactacga gcagcgtatt caagtactaa 2220
 aagacttggg cttcgttgac gaacaatccc gtgtgcagct gaaaggaaaag gtagcttgcg 2280
 aggtaagact taaaataaag gtattctcca taaatgtgct gagacatgtg ttagattcat 2340
 tctgcggatg agctcgtttt gacggagctt atattggaaa acgttctcgc ggaatacgaa 2400
 cccgaagaga tagtcgcttt actatccgct tttgtgttcc aagaaaagac agaaaatgtg 2460
 ccgaccttga acccccgctt ggagaagggc aaggaagcaa ttattcgcat ttccgagaag 2520
 gtgaacgatg tgcagatata gcaccaggtc cttcagtcga ccgaggatat caacgatttt 2580
 gccagccaac cgcgatttgg actggcagag gtggtttacg agtgggcca ggggatgtcg 2640
 ttcaaccgga ttacggatct cacggatgtg atggagggaa ccattgtcag gactattact 2700
 cggctcgacg agacctgtcg cgaggtgaag aatgcagcca aattggttgg agatccaacg 2760
 ctgtacgcaa agatgcaaga agcgcaggag aagatcaaga gggatgtgat cttcgcggcg 2820

tctctgtata	tgtaggtagt	ctaggcgtca	aaagactgta	attatttagt	acggggtgta	2880
ggatatggttc	cctgtctcgg	aaaaccacgt	gggcaccgcc	gggtctttgt	tttttttttt	2940
ttttctgcc	gaagaattca	caaacgcaag	acgcagggat	caggtacagc	cacgccagca	3000
gggcacagaa	cagtgtgagc	atagattcta	ttaggcacat	aactgtgcta	attaactggg	3060
accagattca	gctttattgt	aataatatcc	agtgacctga	actcttttgg	cgtaaccctt	3120
tcacgaaaat	tctcttaccg	cgcggggcgg	caggcgggtct	gattcgctgc	cctagacgcg	3180
gggccaacac	cgctgaaat	gaaaatccac	gagagaagaa	aaccagaagt	gctgaggcct	3240
cctaaatctt	attgatccct	ctttttatct	ccccctcctt	gtctcctctg	accgccgtct	3300
gtctcattta	tttgtaccgg	ggtttccctc	agttcctttc	agtcttgatt	tttgcaacca	3360
gggggtcgtt	gcgggagcga	gatggatggt	gcagccctgc	ggaaccgcat	ccagtccacg	3420
ctagatgcc	atgctgatat	cagacggcag	gcggaacttg	atctgaaata	tgtagtcct	3480
gggctacggg	catgcagatg	gtggttttgc	taaccaaacc	tcttcattc	cgcaggccga	3540
gacgcaaccg	ggtttcataa	atgctctggt	ggatattctg	cagggggagc	aggtcaacgc	3600
cgtccaactg	tcgggtacgt	tttgtcgact	cctcatctcc	ttgctgatgt	tgaatcggag	3660
cccatcggcc	ctgtgaaatt	atccgccaga	cccgtgcctt	gaaccgcctt	tactgactgg	3720
aagggatcga	tagcgggtgt	ttacctgaag	aaccgtatca	accgaggggtg	gtcaactatt	3780
gaggatagtc	cgttgcgcg	acctattgca	gaggaggaga	aaccagggtt	ccgcgagcgg	3840
ctgattcccc	ccttggtttc	ccccccccc	aacgtccgcg	ctcagctcgt	tcctctactt	3900
cagaagattc	ttcaacatga	cttccccgaa	caatggcctg	ggttcctgga	catcacaatg	3960
cagctgctcg	gcactaacga	tgccggttcg	gtctatgcgg	gtctgcagt	cctgttagcc	4020
atctgccgtg	tgtaccgatt	taaagcgggg	gataaacggg	aggagtttga	caagattatt	4080
gagcactcat	tcctcagtt	gctcagcata	ggatcgaggc	tcgtggatga	ggagagtgt	4140
gaggcggccg	tagatgctcc	gcatcggtgt	gaaatcatc	aagcatgcta	tttacgtggg	4200
tgatgcagga	agccaagaag	catatgggtg	gttagaactg	acgggtgaat	agttcgagct	4260
ctcacctcat	cttcaatcgc	accaggcgac	agtcgactgg	tgacttttgt	tcctacggat	4320
cattgccaaa	gaacctccgg	caaattctat	gatggaatcc	aaggaggaga	gagaacttgc	4380
ccattgggtg	aagtgcaaga	aatgggcata	tgccaatctg	aaccgtctat	tcacaggtg	4440

cgtaggcctt	tcgcatcagt	ggtgcttctc	acctaacatg	gatgtttaga	tacggaaacc	4500
ccacgaccat	tcccaagtcc	agtacccccg	actactctca	gtttgccaag	tcgttcatta	4560
caacattcgc	cccggaaatt	cttaaggggt	acctacagga	gattgtcaaa	tacgtttcca	4620
agggtcaatg	gctgagcaac	ccagcacttt	cctacacttt	gatctttttc	gaagagtgcg	4680
tcaagccgaa	gtcaatgtgg	gatcacctaa	agccgcacat	ggagaacctc	attgctcact	4740
tcgtcttccc	gattctgtgc	cagagtgcg	aggacatcga	gttgttcgag	acggaccctg	4800
ctgaatatct	ccaccgaaag	ttgaactact	acgaggaggt	ctcggcgccc	gatgttgctg	4860
ctacaaactt	cctgattact	ctcaccaaga	accggaagaa	gcagactttc	tctatcctta	4920
cattcgtaaa	cggtattggt	agtaagtatg	aggctgctcc	ggatgaccag	aaattgccaa	4980
gggagaagga	gggcgccttg	cgcatgattg	gatctctggc	ttctgtcatt	ctggggaaga	5040
agagcccat	cgcgaccag	gttgaatact	tttctgtacg	ccatgttttc	cctgagttcc	5100
gcagtcccca	tggtttcctt	cgtgcgcgtg	cctgtgacac	gttgagaaaa	tttgagcagc	5160
tcgatttcca	ggaccccaac	aatctgatga	tcatttaccg	gaatatactc	gaatccatga	5220
ctgattcaga	actgcctggt	cgtgtcgagg	ccgcccttgc	tcttcagcct	ctcattcgtc	5280
acgacgtgat	ccgcacctct	atgcagcaga	atatcccgca	gatcatgcag	caactttctca	5340
agcttgccaa	tgaggttgat	gttgatgctt	tggctaattg	tatggaagat	ttcgctcagg	5400
ttttctctgc	ggagctgact	cctttcgccg	ttgctctgag	tgagcagttg	cgtgacacat	5460
acatgcgtat	cgttggtgag	ctcctggaga	gaaacgcagc	caagggcgag	gaggacacgt	5520
acggcgattt	cctggacgac	aagagtatca	ccgctcttgg	tgttttgag	acaattggca	5580
cattgattct	tactctagag	agcacgccc	acgtgctttt	gcacctcgaa	acagtcctta	5640
tgctgtcat	tagcatcacc	cttgagaaca	agctttacga	cctctacaat	gaagtatttg	5700
agatcatcga	cagctgcaca	ttcgctcga	agtctatttc	tccgaccatg	tggcaggctt	5760
ttgagctcat	ccacaagacc	ttcaaggcgg	gagctgagct	gtacctggag	gacatgctgc	5820
ccgcgctcga	caactacgtg	gcgtacggtt	ctcagacgct	tgttcaaaat	cctgcctacc	5880
tcgcagccat	cgtgggtatg	gtcgaagata	ttttcaatga	tgagaaagtg	ggcggcgtag	5940
acaggatctg	tggttgcaag	cttgccgaga	ctgtcatgct	aaacctgcgc	ggctatgttg	6000
accaatacat	ccctgtcttt	atcgagcttg	cgatgcgtgt	catcgatgct	ggagaagcgc	6060

gtaccaaadc ttaccgtctc catctgatgg agatgggtcat caacgccccat atattacaac 6120
 ccagatctca gtctccaagt cctagaggcc aaggggtgga ccaacaagtt cttcagcgcc 6180
 tggttctcta gcattgacag cttcagacgt gttcacgaca agacactgtc cattgtcgcc 6240
 atcacctcgc tgctcacttt gaaccctgcc gacgtgccaa ctagcgttca acaagggttg 6300
 ccaagggttg ttcagggagt taccagactg ttccacacat tgcccgccgc tattcagagt 6360
 atgtattttc atccagccca agcgacttag actaacgtta cacagatcga caagaggcga 6420
 caaaggagtc ggacttccaa tacgaagagg aagacgagga tgatgaaggt aacgactggg 6480
 agggcgaagt ggaatggact gaggggtgatg atgaggctgg tcccaggggc gatattcccg 6540
 acgagagtgc tgcttacctg gacttctga acaaagaggt gagtgatggc agcatgtgct 6600
 tttcagcttg tggctaaatc atcaccaggc ggcaaaattc ggctctttcg ctggggacga 6660
 cgatgacgac gagcttgatg aggagagttt acttgagact cctctcgaca aggttgaacc 6720
 atatgggctg ttcaagcagg tgttcatgag tacgtgttac tttattcctc taataggatt 6780
 tagctaactt gcaaccagac ctccaacaac aacaacctca gctctacgaa aatctgacga 6840
 atattctaaa cgacgaagag aagaagatca tcgagtctgt gttccatgaa gccgacgcaa 6900
 aggtcttggc cgcggccaat gaagaagctg ccaaagcggc tgccctccaa gctaacggga 6960
 atcaatagtt cccaacgtca aaaaaagca accggtagcc gacatatagt cagatcgact 7020
 ctggaagcca agcatagtct atgatataaa agatgcattg tcatgtcggg ttggcgtcgc 7080
 tttttttgga cacatctctt ccccttgtgt cgacggccaa gcagccacta aatccggcct 7140
 aacgtgacct atgctcgttg tttcttttcc tatttagaac gctttgtcgc aagattcttc 7200
 ttcccttttc gttttaccct catgacccat actctattgg ttacgatttc tgccaaaagt 7260
 cccactaccc ttccctgcac acattcttac cctccctcct tcctgaaatc cccgagttaa 7320
 tgaacatgaa tacacttttc ttctactgtc caccaaggat gagcaagagc aatttaactc 7380
 gtcatttccc atcgaggaac aagacaaccg tgaacaatca caagagcaag gaagtaacca 7440
 ccatagggac tggattccag atgttaaata ttagcacgtg acgtatatag ttgagacact 7500
 tgagcaccgt ttctgtaac attcaatccc acccaacaaa tactctaagc ttctgtcaga 7560
 caccaagatt atgttgtgga gtgaatcagg gtgattggcc atatacagca tcttagcctt 7620
 catgcacgtg aacaatcacg acaaagctct tggctctcta tctgcgatat gatgctctag 7680

acccgcaacg tcattatgat gctactaaaa acgtacatag taacttgata cgacgatatc 7740
 accttatata aatctctctt ctcacaagtt ttctctaate tgaatcgcat ttatgaagaa 7800
 ttaatagtat tctcacgctc actgtttcga ggtaagctac catcatctgt caatcttcta 7860
 ctacgagcat tcatttaacg actccagccc accaccacaa cttgattgaa caacctcacc 7920
 tcaccttaca aaccttttcta caaccaagga acaagaatca aaatgtctgc tcagttctcc 7980
 ggccgccaat ctccaccccc cgagagtcaa acaggcgcac aagagaactc cccccgggt 8040
 tccggccgca cagaccccaa gtctgcccct ccgccagagt acgcacccaa gtcaagctct 8100
 gagggcgagg gtcaaagcca gacggcgggc ttgagcagta acccgaagca tctctggag 8160
 gatattgagg cagcaaagta taagaagggg acaggaaatt gacttaagga tcgtgttctg 8220
 aggatgaatg catgacttga ctctaattat acatgaatat caccacttaa gatggaattg 8280
 agacatcttt cttagtactc tgttattttg catggatctt ctcttaaaga gtagtttatt 8340
 aaaacattgt agcgtagaat ttggatgaac atgctgcgat ttttctgcca aaacacagag 8400
 tccagctaga tgacggcttc gactttccag aaaatctctc tgtaatgttg atgtctgttt 8460
 acgggtgtct tatgatctag aatgacgagt gcgccagtta tgaccgcggt actttgccga 8520
 ggtctataaa tgaagaaacg ttactgagat acgtcacgag actgtgccat taggctcaat 8580
 ttgaaagctt cttttccaga caataaacia aggggaatag agtatgaacg tggagaaaat 8640
 tgaaaggatg tcatgctaaa aacacatccg cgaaagtcac taggacgtta aaagtcacg 8700
 tcgaatacaa taattgacaa agggtgactc cactacgcct tctcggtcgt agcaggagcc 8760
 gcctgggcag cctcgggctc aacaccagga gcaggggcag gggcagggtt agactccgtc 8820
 gcaggagagc tgctttcacc ctacgctttc ttctcctcag tctttccagc cttcagatcc 8880
 gccagtcttc gagcctcagc gtgaatatcg cgaacttgct tatcggtctg agagtaaaag 8940
 tcacgcagct tccggcccga gggggtgttg atagccttct caaagtagct gtgcaagccg 9000
 cgccagctgt tggcggcctt gtcgctgac ttatagctct catcaagacc cttggcgcgc 9060
 tcgctggcac cagttttctt gtcgaagttg ctacggacgc tggatgaagc agacgtgaag 9120
 ccatgctttt tgcgatggc aatagccttc tggatagcct ggtcgctaata cgtgtatcca 9180
 tgggcaaggt attctgcaat aatgcgggag cgaggcttgt cttcctgctc gaggtcgttt 9240
 tggttctcgt ctttagcttc agcggcggta gcactatgct ctctgcgat ctcatcaagg 9300

gtttgcgcgg ccttaacggt gactacagag gggccgagct gggctctggtc gaggagaagg 9360
 gcgggttttag cagccctggt ccgtgttaaa tggtaaataa tgacgatatg gagggtgcgg 9420
 tgggtggttt agacttacgc atccttttcg aatgtcacgg tcgccgactt aagagagcct 9480
 ggctcgccgg aggtgggagt aactgagata ctgacgatct tgccactgtt ggactcgtta 9540
 gataaataat tttccttacg gaagaggctg cataccagaa gctgaagaag tcctggacct 9600
 ccttctccga ggtggagggg tcgatgttgg aaacgtggac ggtgggtgcgg tcggacattt 9660
 tggcgatgaa gagttggttc ggaatgcaaa tacagatgag aaagtcgtag agcaattgct 9720
 aggatgttga cctaggaaca ggaacagagt gggcgcgggg tattttattct agacgatgac 9780
 gaacgcagcc acaccgtacg ttatgacgtt tgcggcacag ccacggtggg gtggcccatg 9840
 gtcatagctt gctttcatgt gcaaacgtca ggttgataca ttatttttagt ttaaattctaa 9900
 acgagctgga aggcagtaga attcgacaaa aatagagttg attaaattca gagaagagga 9960
 cagataatga gagaacaaac tatctatcta aatctcgtgc cataagggcc acctttaggc 10020
 gacttttacc agatatcgaa atgggtgtccg ttacctctat gaactatggc caaatataca 10080
 gagtcgccag gcggttaaca gagctctatc gactcggaat gttttagact cttgaatgtg 10140
 cgtgcttttt ctggacgtta agctcgtgct caagggcccg aatgcgctgc cgcagcacct 10200
 cgttctcatg aacgaggggt tctatatctc gtgatgttat atcatctgag tgaactgtgt 10260
 tttttgacct cgatggagtt cgttgctgtg agaaagagct cctccgcgta tacaagtgcg 10320
 agccatgtgg agtattggtc gatacgtcat gctttcgttc ctgaggctgg gatatgactg 10380
 atataaggcc ctgggaagga ggagacgcag cagatggccg ccggctccgc ccgctagtcc 10440
 ttggcccctg tactactgga aagtatgaag cactcaagct cgaggaggag cgattccgcc 10500
 gtgatactgt ggggtatgta ggtccggcta tgtatgctga cttatgtagt gtatcgagcg 10560
 gttcattgag cgtggttgag gtggatgatg tcgttgacgc gacagaggaa gtttggttcc 10620
 gcaggagaga gagctccctt gacaaacggt tgacctagca ggcaacggat taggccaggg 10680
 atctaagggg atgcaggtgg tatctaacca ttgcctcttg ctctgctcg aggatcaaat 10740
 gtatatctga gggcgagagg ggcttcggtt gccgtagggg tccttcca 10788

<210> 5913
 <211> 7207

<212> DNA
<213> Aspergillus nidulans

<400> 5913

cgaatcaagg atgattcggg tcccttttagc atagctcgcc ctcccataac cggcctcgca 60
aaagctcaac cgactccaat gacctcttcg catacgggtcc gcccgacgct ctccgggtcag 120
tccagaagct ggagcatatc tgaccgtagt gtctcgggtat cgatcgagtc tgggtgtccc 180
ggtaagcaag agattgagcg cactaggggt cttcttctgt catcgggtat aaaagctcga 240
gagattcgcc gtcggggccga agaagcacgc aggcggcccc ctgaatttct tcaacgctca 300
ttcgggtgcgg actctgccac acctcccggt ccccgaaat atgagcatga agtggcaagt 360
cagagacttc tcagacgaat tgaagcgtct cacaattcct ttgacagctc gatggatcag 420
ataccgaagg ctgcattttt acctctgaag tcaaaactct ccactctcga agacttggtc 480
gaaaaatcac tcaatactcg cgcttcggtt gcggccgagg aagccgaaaa tcttagtatg 540
cagctcaaca ctaccagcac tctcgccgtg aagcagttga gtgacacgct cgaccatggt 600
ctccgaaaac ggcaccgtcg gctgcgctgg ctgcggcgca cgggcttcgt aatgctcgag 660
tgggcgctga ttgggctatt gtgggtgggtg tgggtgattg tcgtggcttt taaactcctt 720
cgcaagcttt tccatggttt ggctctggc gtgaggtgga ttctgtggct atgattgctg 780
ttctcattcc agctatatac cctttccac gtttagtatt tttaatgatt cacattattg 840
atgtccttgg catggcttct gttgcattta gatcctatct ctgcataaac tacgagggtca 900
gaattaatga ttcttaactt gattctgttg actgtcctta cgctcactgc aggacatag 960
aaaccagttg tgcagagcct tgtatttatg atagctaaga cttttcattc agtctcgtcg 1020
attgatggcg acaaattcca gagcataacc attcattagg tatccatcac gtcttggtcc 1080
aacttacacg gtgccgtac ttacatacta attcgtcctc tgaaatcttg atatggaaca 1140
ggccagatc tgtcaacgac acgcctacgt cttggcaggt tggctgaggt caagacttgc 1200
cttcacaacg ccaatgacgc ttttccagcc agggtaagcc cgtcgtaagt cgtctactca 1260
agaacatgaa gcattcgcgt gcaaactctg cgatacgggg tgttcacgct gtcaagcgta 1320
tgacaagac tagattagaa agacttcgtc ccaaacagag cttgaacaac tgttgacaga 1380
tctctgcgta ggtcgacgtc atcgtccacc ttcgcaggtc gtctcggagt ctcatcct 1440
cctcgcgcgt ttctcgtct tggatcggtc taggcaatga tgagatgctg gtcgcttacc 1500

atgtcccctt cccgccacgg ccggtctga tcgacgaagc cgtagcgac gaaaacgaca 1560
 aacgctcgct acttaccggc tctttttgag ttcattgcgg aaggcgctcg gacatcgcat 1620
 gccggtttta atgtctggct ttctcataac attcagctgc tcaactttgt tagcggccta 1680
 aaccgttggg aatggagagg ctgttgagat ttttgctcag ctgcgtgacg tcttcctgga 1740
 gaatgtcgag gggactgcgt aactgctgct gctcggaagt cttccaacgc gttagtgggt 1800
 tgtggccgtg tttgacagca ctggaccgtt caagactggt actgacatgc agggcctgtt 1860
 gtgaataaaa ggtctgttcc tctagagcct gtttcttagt tagcgggttg gtttgggtact 1920
 ttaccgctg ggagcgtctg atgccgccct tctgtgggca ttttatgctc tggacttggg 1980
 agtcactctt agacgacatg ttcaatttct tctatggacg gagaaccggt gttctagtgg 2040
 tgatggaagt tgtctgtgat gttggtatga aactgatatc tggataatcc tgatgcggaa 2100
 agtcatactt gaacagagcg tatttaatca tttatacccc ctagcaagaa agaggtcttt 2160
 catgatctgt ctacgttggt aagaaaacaa aagtgtaggt caatgggctt ttatcgctc 2220
 cgtctggcta tctgttattc gtcgatacgc aacaatggcc tttccttgaa agttcagatg 2280
 ggaatctttg ctaggtatgt tttcaatggg cgagtcttag acgagtagca cagaaaaaga 2340
 aacatgtttc aaccgaaatt gcggtttgat tgtccgtttt ctgatggtgt gcaatgtgtc 2400
 tttggtgggt gttggctgcg cctctggcgc ctctctgccg attattgatt ggtataagca 2460
 tcatagacag aactgccagt caacaactag ttaacaaaga tcaggtagaag taagctgtaa 2520
 taacgggact aacgttgccc ggaaattcga cgcttggtga tgaagtgagc aggaatctgc 2580
 gtcctatag tcaagtagga gccagcaatc tccaaaggac aagaattttc tcccatatgc 2640
 tatgaatcct tgccagatga gcggtcaaac taggataccg cgttcctggt acttggccaa 2700
 tatattaacg agataagcag gctttttata tctcatgaca tgtgaactgc ggtgatgtac 2760
 ctcaaataata tattttcata tacacaaaaa gcgagtgggt gcttccttcc cgccttgtgg 2820
 aaaggggcac taaagatcct taattacatg gttgaaactc accatatgaa ctgatttcag 2880
 ttagtccctc aatcatatct tagagtaagg tctcgggtgt ctataataaa gctgatatag 2940
 ttcggcagac cgctgagtac gagtggccgt gacgcaagat ctgcactgac tcacaggcac 3000
 ggactgtat ggcgtatgca ggagctggag ctctgacggt ccgttaccgt gcggaataat 3060
 acccgacag cttatttata ggacaattac gcggattgct atttgcaggg cagccgagta 3120

cgatgacggg accaaaccct gacataacca gaccgagtgt accgcatgtg taaattacgg 3180
 tattttatta tctcaagggt gccatgggcg tatggaccgg tcagactgtc acacgaggga 3240
 cgggtcggaa gattgcgtcg aacatccaaa acttcagctc ctcgaacctc tccctcctcc 3300
 gccactatct tcgttctttc atcgcgtcaa aggaaaggtc cgtttgcgtt tcccccttc 3360
 cctcgatcag gtttgctacc cctgccgtg tcttgtttcc cgttcttggt ctgggcctct 3420
 ctttccggt ttggcctggc ggcggtgtgc cctctgccct aagtttcgtc agggccaggc 3480
 cgccgttcgt taaaaatctg caccactgc accagcggag gtcattgtc ctcccccagc 3540
 cctcgaccc gagattcata aatctctcat acaccaactt gatcttctgg agctgaccgc 3600
 cgattcttca atcagatcgc agcagcataa atctcgcggg agtccaccga ttcccttttt 3660
 ttgagacctt cttcgtcatc tctaccctc atccagccag cctttgggat tctccgggtc 3720
 caaaggcacc agtcaccacg gcttacgaag ccggcttctt gtcctctcgt cacattgtat 3780
 cgctcgacg ccttagagac actcttaaca acatcccgcc tctgctact gcttccacga 3840
 gtctctccc cgatcggcgc gttattttcg tccacctga cgccactga gctttttccc 3900
 tccccattg agctgccga taggacttct ctggcggttc ttcctcttaa gaagaaaggg 3960
 tctaggaggc ttggtccagt caactacggt tgcgaaactt ttcgccctcc ctagcacgca 4020
 gtcggtata aatctcccaa cctttccctc tctttacttg tccagtcgta ttccgtgcta 4080
 cgtcgccgcg catggttatg gcaccgactg cttgtgtacc tgctgaagtg tgcatgccta 4140
 aactttatga caaaccgac ttttatgtca ataatatcca ccagttcagc aatcatgccc 4200
 cggatgatct gtcgcaatct cggttggctg ccaggacctg gtcttgaatg tgctgaagaa 4260
 gcgagctgct gaggtcgaca ccgaccgatg cgctcctgga gaagaagatg ctttctatgt 4320
 ggagacatg ggtgaggttt atcgccagca cttgcgtgga aaaatgaacc taagccgtgt 4380
 gcgccctttt tatggtatgt cttccatgct ttcttataac aggacttgat gctaacagaa 4440
 ctagcggtea agtgcaaccc cgatcccgag gtctccgcc tcatggccaa gcttggaaac 4500
 ggtttcgact gtgcttccaa ggcggagatc gacatggctc tttcgactgc gttgatccta 4560
 gccgcatcat ttatgcgcag cctgcaaga caagtcgtac ctgcgtcacg ccgccaaggt 4620
 tggcgtcaag cagatgacct tcgatacgcc gatgagctgt ataagatcaa agcctgctat 4680
 ctgaagcaga gctctacctg cgcattctaa ccgacgactt aaacagcttg ggcaattcat 4740

aatgaagttc ggcgcctctt tgatgtggct cgtcagcttc ttgagctggc ccaccaactt 4800
gagctcaaga tcgttggcgt gagcttccac gttggctctg gtgcagagga cccaaggct 4860
ttcctcaagg ccgttcagga tgctcgctg gtctttgatc aagccgccga gatcgccac 4920
gagctgcaca ctctcgatgt tgggtggcggg ttcaccgggg agactttcga gaaatttgcc 4980
gccgtccttg acagcgtctt cgaaacgtac tttccgccga acatccgcat aattgcagag 5040
ccgggccgct actacgttgg tggagcgctt accctagcgg cgaacatcat tgcgcgccgc 5100
gggtgtgcagg accccgagaa cccagcaag gacgcttaca tgatttatct caacgatgg 5160
gtttatggaa acttttcgaa catcatcttt gatcaccaac acccagaagc acgcattctt 5220
tcctgcgcgt ccgagattaa tggtcgcctt gtctccgaag aatgtgacct attccatttg 5280
gggacccac ttgcgatggc catgatcgtc atcagccagc gcagcgtgct tcctggtttg 5340
ttggacgttg gcgactggct ttactttgag gaaatgggtg cctatacccg atgcagcgca 5400
acacgtttca acggtttctc cgataaccat gaggtgatct acatctctag cgaggcggac 5460
gcctctgctc tccttgaata ttagcttaga tttggtttgc ttttgttggt cgtttaccag 5520
ccgttgtcag tccttaccgc aataatacca ccttggtgaa aagaggctct ctgatatgga 5580
gtagacctga ggtttgattg aactatcgct gttttaaag tcttctctat ggtagtata 5640
tatcatttag gtatccgacg gtgtctcgct cgcactatc tctaatacag tctatatcgg 5700
tcatgccgag ccagctcaac acgaaaaaaa cctccgatc tatacaaggc gctcaacatt 5760
caactccgcc ccategcttt gcaccaacgc cccaccatcc aacttcttct tccacttcgc 5820
cgattcatac cttgccagga taaatgtaat ccgcgcaact gtagccggat cagcagcatc 5880
cgccacaact tccgagctcg tgcacgtcca tcgcccgaag gccagttga gaatgtagta 5940
cgctgagtcg ctagagtttg aaggcgatgg ccgcacatcc aagtcatccg acgaactcgc 6000
cagcggcgtc tgcgtcgaa agcgcaggat ccccttaatc cggtaaacct cttccttggg 6060
agctgaggag aggagctttt ccaacgcggg tacgtcaatt gtcgatgctc ctgttccttc 6120
ggtctgccgt agcgtaacag aaaaaacttc tacctcggac tgatgcccac gtcgtgtcc 6180
atgcccactc gcatgctcat gtccatgttc atgtccgttc tcgataacct gctttgcaaa 6240
cagcgcacca tcaatcccaa gcagcacatc cttctccacc ctccccttgt cactttttac 6300
ccacgggggt tgaacctcca gatcaccaac ccgatcaagg acctcatcaa accgtcgcctc 6360

tgacacatgt tcccacttat taaacacgat aagatccgta tacctagcct gtatcttcgc 6420
 agtgtagctc gtgtcctcgt agcccgccca attctccacg tcgatgacag acacaactcc 6480
 atccagtgtg tacttgctgc ttccgtcttc attgtgtggt gattctcgag aaagtcgatt 6540
 cacttccatc gccaacgtag cggggaatgc gctcccgctt gtctcgatga tgatccggtc 6600
 tggatccaca gttgattcga gttcggagag agcgtcagag agttgcccta ccaggttgca 6660
 gcaaatacag ccattgagga gttcgcggac gcctgagatg gcggaagtgg aggcgagttg 6720
 ggagtcaatg gctacgtcgc caaattcatt ttccagcaag gcgagtttgt atgatttcgg 6780
 gagttgtgga agaaggttca ataataatgt tgttttgccg gaaccgagga agccggtcag 6840
 gattgttatt ggaattgaag gcattctgtt ttccgtttcc gtcacttttt cgacttttcgc 6900
 ggggagagga aggttaggcg ctgctgagtt cgagagttag atggatggag gggaagaggg 6960
 gaaagacatc ggggctcgat aagaggttgt atgcgcgcta tgcctgttcg ggacggggccc 7020
 tatacccggt gccactgatg tacaccggga ttctcgattt cgtattccac ttaataacta 7080
 gctaatacat atatactatt actaaaaaga gactgacgcg aagaagcatc tgtggtcttt 7140
 acttgccatg catactgcgc atcgccgcag ccaactttca aacaaactcc ggcgcttctg 7200
 aacggtc 7207

<210> 5914
 <211> 8397
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5914

tgtggcagtc tcgatagtga gactacagta gctcagtcgt caatcatcgg gtgccgcatg 60
 gaacgggcat cggaacatg aacggacggc cttggaccgg gagtatccaa tgatctgaat 120
 gcgccagagc cgtagaatgc gcaaattccat tcagaaaaag tagcgcttcc tactgactgc 180
 gcaaccgaaa caagcatcaa gtgaagctcc gaggtcactg gggtcaggca gtggcacgta 240
 acgcgtttta tgacgaccgg aattcatacc tcgcaagcat acagagccac cacttcatac 300
 agatcacaag taaacgcgta gatcgacagc gcaacagtcg tctgaagggg tttctttatc 360
 cattcaaagc gctcggcgac ggccattgtc gaccccttc gcctttgaga gggtgaaagg 420
 ctacagtaac acgtgacgta cactaaaccg ctttaggtcc ccccccgagc gggaacgacg 480

ccgactcatc attattgagg cggtttcact ggcagcgtgg acaacactga tcgattgctc 540
 tcgattccaa ttatcgctgt ctcatactca atacctcaca gctcgtcatt ggtgttccat 600
 ttgaggccct gattccttat ggaatcgctg ttgttgtagc taccctcgcc gaccgtctgg 660
 tgccgtaacg ccgtgaagaa cctgggtcgt ccaggtacca gaggccattg ggctatttgt 720
 gtcattggaga ttccgttctt gcgctggaac cattttctgt caatttgctt taacaaattc 780
 agatgttcgg tgtgaccgga gtcgggtctt cggttgtaga gacttatgct aatgacggca 840
 agaaagcgcg gtggaacagg gatctgtggg atagagtaag gataccctga gaccctgtca 900
 gctcagctca tctatggctc ctatggctat tgtaggcgcg agttgcattg gacgaaaatt 960
 ggctaattgac cctccagcaa agtatgtgac tacacaatcc aacaaccaac ccgcaatcgc 1020
 ttcattacca ttcgcaatga ctaacctaat gctcatataa agtgatggaa agagacttga 1080
 gacttacagg ctctctacga ggtcaatcga caaaccgga ggcgcccgaag ggtttcgaaa 1140
 tcaacaacct atggaaggct gagaaacgct tctactagat ttgcgttcac tcccaatcgt 1200
 cctcttcac ctacatcctt aaaacaatcc cctgtcataa atttggctca cgcggtacaa 1260
 tttctattgg tattcacctc atgctgtacc agcgatgcga gccattcccc ctgatccgg 1320
 caacttctcc agagatcgga ctgggcaaca cgtcatacat gtatgtgctt tgggtggaaat 1380
 atctctagat ctgtttgtat cataccatca atgccgatga cgttctctca ggttcagtat 1440
 atggctgcat attggagaca ggaaccgcca atgacaccag tacatgttct aatgtggaac 1500
 cgtgtcgatg tatgagcgcg gcaccctctc aagggtataaa ctgaattatc aatagatgac 1560
 tcagtagatc tcattcaata acgtccacgt tatggtagtc gcgtatccca atccgcgttc 1620
 agcccgcttc tatacgagaa cccaacaagc agaagccttg ggaagcccaa gcaagctttc 1680
 tctcatacat tgtcaaccaa tggaccaagc aaaattacgc tccatgtaaa tgcaaccata 1740
 tcacttaaca tctcctttct atgccccttc gactaacaca tatatacttc actcccttgt 1800
 atggtttcac gccctcgccg agggcacggc ttccggcgtg atcgatgttg aggtctctca 1860
 ccttaatgcc ggacggaagc cagcctcgca cggagaacga gacagacgcg gaatttggca 1920
 taaggctgga gttgagctgg atgcgagttt tgcgcgccgc agtatggaat attgagaacg 1980
 gcgatccagg gcggggcggc ggaggggtgg acgaagatag ttgtttcggt gttggtgtca 2040
 aggaaggtag ttcagggtgc gatgaaggct gagaaggtag aggttctgag gatcggtcgg 2100

gattcaagtc tgaggccggg agtgtctccc ctccacgatt ggcgtcgata tcaggcgtag 2160
atactgaggt gtcgcggcgg gaagatgctg gtttttttac tttctttacc ttcttcttct 2220
tcttcttcgg ctccccctt aaccggtctg tttctgtgtt ctgctgataa gatactgccg 2280
ctgagtcgtc gtagtaacct tgtaacaggg tagcttctgc atcagcctca ggatcatcct 2340
cctcgatctc gtcagtggaa tggccgacag ccgtacagcg aagcgtagct gttccggaga 2400
tgctccccgc atccttagtc gggactctcc actctagtag cccccgtcca gagttaaaaa 2460
gagcctcgcc gcggcttgtt ttcatgtccg ttatgtttcg tacggacggg ggaatgggca 2520
ctgtcaccac tacatcctcc agaaccggac cggcattatt gctgttgcca ccgagaaaag 2580
acgggggtga agtgccagac cctccccggc ccgctccagg tcgacttcca gacgggtatc 2640
caggaaagtc tgggttaagt gttaaccgca cctcgaaatc ggcgcccaca gaaccgagcg 2700
acttttgaat gtcaacaatt gttggaagaa aaagcttctc catatgactt ggcggttgat 2760
caagactggg gtcgagaggc agcaagtcca cctcatatcc ggcaagaata aaccgtccat 2820
ctgggggaat gaagctcagt tccccaggcc gttcgcgcca ctttgcaagc cgcacgcagg 2880
gatggaaaac aggtagttcc atcttccgag cgatggcatg ttgccctccg ggtgctgtga 2940
gagataaaat caagtcgggg acaccggata ccttggccgt aaaggcgatc gtgcccgaga 3000
ctaacgcaga tatgaggcgt cctgatggag ccattgttac tgtgagagat tcgacgatat 3060
cgacgtaaag ctcatattgaa gtatgccgta caccaggacg tctccaggga atagccggcc 3120
ccagggtcgc gtttccggac gttaatgatt gtcgcttgag cccgggttgt cctaaaatcg 3180
gcgttgatga tctatatcaa caggccagca tattagtac catgaagccg agtaaacata 3240
agcgagcacc taccaggtta atccaacgtt gcccaacagc ttacccatcc accccggcat 3300
ctccaccacc tcttgagggg cattcagctc ggtgttgag acgatgccag catcgacat 3360
ctcatgtagt aactgagcca ccacatcgta gttcgactgt accttgagc aaatcaaggg 3420
tgctcccacg aactcctcaa ggatatcgac aacgcgatgc aggaactcta acgcgaagag 3480
gggctcggtg tcggattccg agagcgccag gaaatgcaag ttcgactcga ctatagagaa 3540
cactgtaacg ggcggggacg tatttgcgaa gtagatcagc gacgggcgcg gcgcaggatg 3600
agcgaaatag agggggccgaa tggtcgccgc ggagggtgga cgagagcgat agacttgttc 3660
gaccagaggc tggctagagc accgacgctg ttagcctaga tgtgctgcgg atggggaggg 3720

cacgcacttc tgctcgtcgt atatgtagac ggcatacaatc tcaccgctca tgatgtcgac 3780
 ggctctccag ctcgatcctc agacacgatt ccattcaatt gtagtagcgg cgatcccaac 3840
 taacgacctc atcgggatga actcatcgct gtttctgccg caagtcgccg ctttttcttt 3900
 gtttctccgt cgcagtgtga tgatctttcc aacgtccaat atcccgctca cactttctcaa 3960
 gtatggcggc ctctacagaa gctaacgcgc cgagtgcgca gccctcgaaa gccaaacctc 4020
 cggtagctta tgacgagttt gaagactgct tcgcttgag agccaccggt gagtacaatc 4080
 aattctgggc aatcactaac ccgaaccggt atgggatatt gtctacagga agctaattgt 4140
 catctctagg gtctgctgca ttcattgggc tcggagtgtc cagctattat accggcatgg 4200
 cgaatttacg aaaacaagaa aagacgatca tgcaaagcgc gaccaaatac aagatggggt 4260
 ctgcgccggt ggggatcgcc actatctctg cagctcttat tggcctaggt gtctggcggg 4320
 cagttaattg aggtacactg agtgtagcgg tctgtcgttg ctaaagcctc ctataagggtc 4380
 atgtatgggc ggagggatgc ggataagagg aattgcttca ttgggtatca ccatataggg 4440
 tagactctat gaataaatg cgtataaacc aagataacga agataggaag gatacaaaaa 4500
 aagtctcaag accccaaagg gatagaaatg gaaggaagca atgaaatac catgtgcaat 4560
 actcctacta tatgctccag agaatagaaa tgacaaccgc tgcgtgacta tggcgtattg 4620
 aagttcgtcc cgaggcagga ggaaatcgta cctctagcaa aagcgtcctc gtttgccgcc 4680
 tccaaataga tctcggttat tccccaaacc ggacaagtca aagaagtcgg ggaaattatt 4740
 cttgcgtttt gagectatcc cgaccggaga atcgcgcggt gagtttcgtg ggcttggacg 4800
 agtcaaattg acgtggcggc tttgctggcg agagttccgt gctaagaccg agaccgtggc 4860
 gggcgtgtcg ctctgcggtg aggagctcga gctgtctgag ttctgcatgt ccatatcttg 4920
 ctctggaact tggggaaaag tcgggcccgc gacgtaggta aagagaggag gccgatcaag 4980
 aatgaccggt tcggatggtt gagcggcagg ggtggatggc ggttgctggg cgggggcttg 5040
 ttcttcacga tggggtgacg tgggtttgga ctggtgtcga ggggcctccg actcagaggg 5100
 ttctttccgt gctacagcgg gcgtagtaca ccgagtcctc tcggcatcat catcatcgct 5160
 agaatgcgcc aggccatcgc tccgttctgt ggcccattgt cgaactcgcc agccctctcc 5220
 atcagtcaac ccgaggtttt ccctgtcgag gaagtgcagc aagtcttcaa tggcttcttg 5280
 gtatcccgc tgtctgcct gtgattccgc ataaacggca ttcttgtaaa ggttggtgac 5340

cgagagagca gcggttctga actgttggag gagctgctcc gaaggcgggc gaggcgtcga 5400
 actcggtaac gaggtattga gagacctcat cgagtcatt acggttccag ctgctgtgaa 5460
 agcagctgcg aatatgcgtg ggtggcttgt ttgttttgca gcggagattt tctccttgt 5520
 ttctcggtac cgaactcgac taggaggggt gaagagtcaa ccgtacttga gcaaaccaag 5580
 acgcccagag caaagaataa gagagcacag cccgggcaga gggaaaagaa aagatcagag 5640
 tggctttaac ggtggaagaa tccctgtaat gcagaaaaag ctctaaactg ggagagaaat 5700
 cgagatacag caacctctgt cagatcttgg acgttccgtc tctttctgct tgtccttgt 5760
 catggtaacg tgaccaccg agcgggaagac gagtttccc gcggaatcag gtgacttta 5820
 gcaatgatgg cgccagccag ttagcgctc gcgaccgtt tgctcagca aatcattatt 5880
 tgccatccac agcgcgactc ttgttctccg ttctttattc aatcctccc catcgtcgtt 5940
 attcacgcct tgtctggtt gacagcacct tattttctct ttattgggt gtctgcaata 6000
 gactccaatt ccatatctct ctcaaattat ccattctgtt tcgtgagcta catactccga 6060
 ctttatagt tcagcccgac cttaaaccct tcattgtaat acctctcatt gcgaaaagac 6120
 aatactctca ccgtttcgcg caggtcgcgc aatctacaat catggctcct gctgccgttc 6180
 cgacttccga ccgccttcc caggcagata ctcccatgac agacgcaa at gaggagatta 6240
 cttcagtgcc cgtagaccct ctagatgcga agatgacagt atgttgccga aagctcattt 6300
 cccttagccc tcagcccgcc ctacgccc attgatattgt tactgagccc tgaacactgc 6360
 taagctgacg acctattagg atacgcctga ctacacggta aatatctgcg accgccgagc 6420
 agattgtttc atcttgcac agctaactta gcattgccag gattccgata cgaacccgaa 6480
 caccactgca agcagtgttg caggcgatgt agttccatca gacggccgaa ggcgaaggtc 6540
 cgaggccttt caaatgagga agaatatgtt tggcaagaaa catggctccc tgaatgagaa 6600
 taagggtaga ccagatgctc tatacaaata gcgtgctgtg tatcttacac gtgttctgtt 6660
 ataggatgat gactctatcc ggaggtttcg ctatctactt ggactcacag atctcttccg 6720
 tcacttcac gagtcaaac caaatcccag aatcaaagag attatggcgg aaatcgacag 6780
 gcaagatgca gaagaagcag caaagtccaa gcggaagtc tctgcgcgtt caggaggtgc 6840
 aagcggcgag cgaagacggc ggacggaaca agaagaggat gccgagcttc ttagcgacga 6900
 gaaacgtggt ggaggaacca acacaatctt tcgagaatcg ccgccattca ttcaggcgca 6960

aatgcgtgac tatcaaattg ctggactgaa ttggttggtt tccttacacg agaatggcat 7020
ttcgggaatc ttggcggatg agatgggtct aggcaagact cttcagacga tctcatttat 7080
tggctatctt cgacacctct gcgacatcac tggctctcat ctcgtcgagg tccccaaatc 7140
caccttggac aactggaaga gagagtcca taaatggacc ccggaagtca atgtgttagt 7200
cctacaagga gacaaggagg agcgtcacia gttgattaac gagaggcttc tggacgagga 7260
tttcgatgtc tgcatacta gctacgaaat gattctccgg gaaaagtcgc acctgaagaa 7320
gtttgcttgg gagtatatca ttattgatga agctcatcgg attaagaacg aggagtcatc 7380
gctcgcccag atcatccgag tcttcaactc tcggaatcgc ctccaatca ctggtactcc 7440
gcttcagaac aacctccacg aattgtgggc tcttctcaat tttttgttgc ccgatgtctt 7500
tggtgattct gaagccttcg atcagtgggt ttcaaaccag gaagcggatc aggatactgt 7560
tgtgcaaaa cttcatcgtg ttctgcgacc attccttctt cgccgctga agagtgatgt 7620
cgaaaagagt ttacttccga agaaggaagt taatctatac gtcccatgt ccagcatgca 7680
agtaaaatgg tatcaaaaaa ttcttgagaa agatattgat gccgttaatg gagccggcgg 7740
taagaaagag tccaaaactc gcttactgaa tctcgtcatg caactgcgca aatgctgcaa 7800
ccatccctac ctcttcgaag gggcagaaga gggctctctt tacactaacg acgtacatat 7860
catcaacaat tctggtaaaa tgggtgattct cgacaaactt cttgctcgca tgcaggcgca 7920
ggggagcaga gttctcattt tctctcagat gagtcgtgtt ctggacattt tggaggacta 7980
ctgcgcgctc cgaaagtacc aatactgtcg aattgatggc actacagctc atgaggatcg 8040
aattgccgcc atcgatgaat ataataaacc agattcggat aagtttattt tcctcctaac 8100
cacaagagcg ggagggttgg gtatcaactt gacgactgcg gatatcgttg tgctgtatga 8160
cagcgactgg aatccgcagg ccgatttgca ggcaatggat cgtgctcacc gcattggtca 8220
aacgaaacag gtcgttgat accggtttat caccgaatca gccatagaag agagagttct 8280
ggaacgtgct gcgcagaaat tgcgattgga tcagcttggt attcaacaag gtcgggctca 8340
gcaacaggcc aagaataccg cttccaaaga tgagttgctc ggtatgacct gaggagc 8397

<210> 5915
<211> 4194
<212> DNA
<213> Aspergillus nidulans

<400> 5915

gtagctgtta gtcaagctgc gatgaagtgg gaaagctcga actgaaaggt tcaaaggaat 60
aagggatggg aaggatggag tatggatgta gcaaagtact tacttagggg aaataaaggt 120
tcttgatgg gaagatgaat atactgaaga tgggaaaaga aagagaaaag aaaagagcag 180
ctgggtgggga gagcaggaaa atatggcaac aaatgttggga ctgacgcaac gaccttgtca 240
accccgccga cacaccgggc ggacagacgg ggcaaagctg cctaccaggg actgagggac 300
ctcagcaggt cgagtgcaga gcaccggatg ggtcgactgc cagcttgtgt tcccgggtctg 360
cgccgctggc cagctcctga gcggcctttc cggtttcata caccgggcaa agcaggagag 420
gcacgatatt tggacgccct acagatgccg gatgggccaa ttagggagct tacgcgccgg 480
gtactcgctc tacctacttc ggagaaggta ctatctcgtg aatcttttac cagatcggaa 540
gcaattggac ttctgtacct aggttaatgg catgctatct cgccgacggc tataaccccc 600
tggcttcaca ttctccttcg cttactgccg gtgattcgat gaagctccat attctccgat 660
gatgcaatag attcttggtc aacgaggggc acaccagcct ttccacttcg gggcggaggg 720
gcggccggtc ccggattaat aatcatccac tgcacctcag agccgccaga gctgtctggc 780
gcagtggcgc ttattactca gcccttctct ctgcgtccgt ccgtctctcc gcatgccaga 840
aagagtcacc ggtcactgta cagagctcac gagttcgtca catttttcta caaatgggtg 900
aggcggcgga ttttaggctc aagtcatgac cctctgggtc actccagaat cagctaggctc 960
aacgaataag gatgattcta taggaagatc caggcaccgg tcaaccatga tctggacaga 1020
tttgggagct cggataaagc tctccaccat cttattctgt atagttagg cttaaagttt 1080
atccaggaga tggtgctgaa gtcgatttga gtccacttcc tcaactgtag ctatacgact 1140
ttgatggtcg ttgtaggggc tgtattaggt ctcgatcaaa cacaaataga attaaatgg 1200
actcgagtcc actgaagggt ggcttctccg tcttccgtag ccgtgccgaa atccttacag 1260
cttgtgttgt gtgacttttg gttacgccgt ctgacttttg tggtagagcta actagagatc 1320
atgctatata tcttgattta atacaatgct catcataaca ttccacctgg aactgctagc 1380
aacgtttgac ttgcattgtg caacgccctt tgcagagcta tcggatgatc aatagtgcc 1440
cgttctaaat tcaaccaacg caggtgcccc aagccttcga catccggatg tatttcgaaa 1500
acctcatggc gattgcagtc ctcagattca tgttcattcc aatgctcatt ggtgaataaa 1560

aggttcacgg gaataagttc aaactcgaga tacttgagaa tattgaaagc caaagggacc 1620
 ctctatgctc caagctagag tctcagcctg gaaagcaaat ccaaatagaag ctatgctacc 1680
 tccaattcct catcatctta tctataatac agagcgaaga atatacctctt gacaccgctc 1740
 cgctctccga cttcaataag gagcttactc ctccttgaca ccacccctcc agttcttctc 1800
 ggcgttctgg agggaggcct tgtcggctctt gggctggccc tggctgagaa agctgttggc 1860
 agccttaaag ggacgctgga ggtcaccagt cgctggcttc ccgaagacgt ggatcttaac 1920
 cagattcgat tcgaaagcgc ccttcagcgg gatgatcgac tggatcagaa gagggttggt 1980
 gtacttgaag tacagatgca tgacggccat catgccaacg cccatgaact ggctcttaac 2040
 gagctggcgg aactggccct tatcgtactc catgttggtg gttgtgacag gacgaggctc 2100
 ctgcgcgctt ccagcggagc aggtcgcagc tattttaatg tcgaaagatc tgcagagatt 2160
 acttcaagtc agccaactgc aaacagaata tcccgccaat agctttggga cgatgcaaga 2220
 tataaacgaa aaagacgaac cgttcttctt attgatttga gcctgtgtgt agagatacaa 2280
 gctcaaaata atcacgttcg acacgacgta aaggccacga acaagcagca gaacatcagg 2340
 gtcgtcgaaa ggaaccttct tggcgacctg catcatcaca acgatgatcg ccaaattcgt 2400
 actataagcg catagtctat cagtaaaaga tcaactgagtc atgtggagat gttggcatgg 2460
 cttgacggtt gtttcatgct tgtccaacac gatccacaga caagaatgcg taaaaggttg 2520
 acgtacactt gaggggacac cattttgaaa gcggcaatgg aaggcaactg agcgagagag 2580
 acagattgcc gcggtgtaat gaactgaagg gtgggcgttg gttgaaagaa cacgcgagca 2640
 gaaacttccc caggccgtca ccatcagaag ggaagtcgga caactgtcct aacgtgcaac 2700
 aatcacgtgc ctaggtacct ccagaacacg cgagatagg ccggcgatag ttttagagcc 2760
 tcaggcatta taaaaatggc tgcttatgta acaaggctag cacactcttc gactcatgct 2820
 tgctcctaca acttctgtgc tgcgatgttg agctgtgcaa agtcgcccac ttcgtgatat 2880
 catgcggcca gacacctgat caggaattac ctaaggtctc atgaccgcga ttaggtacac 2940
 aatttatctt tttcgtctag gacatgctcg aaatgcctgc caatagcaag caacctgcaa 3000
 cctagaagcg ggcgttggaa ggtcagcgtc gacctacaac ctttcaatgc taggttgtcc 3060
 cttgaaacaa agcttctgga ctatcattgc gtgttattga gcatatacac ctttcttgcg 3120
 cttccccggc acgccgatgc cctggcattc atcatctcga gtcatggcca tagctgggct 3180

tcggttgga tggtaggtg gttccctaatt ctggactagc ggcgtttgag gctcgaatgcc 3240
 gtcttttagcg accaggatgg ctctcacatt tctgactcct tcatccatca acaacgcgcg 3300
 tgccgttact gtgtcgaatc cttccaacgt ccaccatccc gctctatcga ctaataacct 3360
 tgatcggcgc gaaactttat cgtccgcgac cccgaatctc aacgcttttc caaaatgcct 3420
 ggcggaaagg gaaagtctat cgggtgaaag gcaggctcca aggactctgc ggggaaggct 3480
 caaaagtccc acagcgcgaa agccggtttg caggctagta ttttcacttc ttttctgcta 3540
 aatctttcca tagctgtttc ttattatcac gatttcccggt gcgtgcgaca actctaaact 3600
 cctgctacac ctttcgccct ctcaactcct caagatgtcc atggttcttg atagcttcta 3660
 gcttttcgct ccgacctaca ttcttcgat cgcacctttt cagcatcgtc gttgacagca 3720
 ctgtggtctt atgtctctct aactcattca cagttcccat gcggtcgtgt taagcgtttc 3780
 ctcaagaaca atacgcaaaa caaaatgcgt gttggcgcga aaggtaagaa aaccagcgt 3840
 ctctcgctcg agcaacactt gaaacctcac taacaccttt atttagccgc tgtctacgtc 3900
 actgcagtcc ttgaatactt aaccgctgaa gtgctggaac ttgccgaaa tgctgccaag 3960
 gacctcaaag tcaagcgtat cacgccgctg cacctacagc ttgccatccg tggagacgaa 4020
 gagctcgaca cgcttattcg tgcaaccatt gcttttggtg gtgttctgcc acgcatcaac 4080
 cgcgccctgc tgcttaaggt ggaacagaag aagaagaagg acgcataagc actgcgggat 4140
 cccaacacat acggcgttta atgatgattg aatggaaaca cccagcgtac agtg 4194

<210> 5916
 <211> 9354
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5916

ttccaaaatc ctacatagtt attactttgt attgcctatt tagaatactt aaaaggctat 60
 gtcactatag aggaaatgag ggaaaacctt gaatctaact aggttaaatt gtaataatag 120
 attgtggagt atgtatacag attttttagaa agtcaaggta gattctctat atattaatca 180
 aaagttataa atttggtata taaagtaata tatatttatt aagcttagac ttgttaaacc 240
 acgggttggg gcgggttttc aggcctagct gatccgcca tgcggttttt ggggtgggtt 300
 acctgaacag taaaccgccc atgggttttag caaataattc taaccaacc taaataaccc 360

aaaataaccc agttttgcat atcattactt taataagcag tgatctacat agttaataaaa 420
 atactgtatt taaataactgt attataaact atctaagtaa gaaaatgtaa tctaaatata 480
 gtaatatacc tatntagata tcttggaac ccagcgggtt gctccgccg gctttggggc 540
 agccaaaaat atccaaaacc caatggataa ttagaaggtc taaccaacc catttcttg 600
 cgggtcgggg cgggttgggg cgggtttcgt gggttgggtt taacaagtct aaaccatggt 660
 taattacagc tactgcttcc aacctatggt tgcaaatag gtaaagattg ttaagggacg 720
 tatntagatg gatcttcta tctagacgtg ccgtacgtac aagaaggaat cgctaaagaa 780
 gaaatgagaa agaaggattg ttgttgcaag gaagtcttgt aggtggctca ccgccttcag 840
 gacagcgag gccttggccg agtactaag gtctaaggtc cttgtatagg caaaggaccc 900
 ataacacctg cctgtattat aaagcccaag tactttatct cttatactt aaatttgcac 960
 ttcttaatat ctaaatatag gcctgcttct tccagtttct tcaagactat ttatatatac 1020
 ttccagtgtt ggcagaggtc cctattagta tagacaagta tattatcaat ataggctgag 1080
 cagaatttat ctagatattc ccagagggtc cagttaatat atttttagaa ggtgcttagt 1140
 acattagcca acctaaaagg ggtgactagc tattcaaaga gcctgtatct tgtatagaag 1200
 atagtcactt attcctggcc tttagctata cagatcttat agaaggcagc agatatatcc 1260
 agcttagtaa actatctagc ttgtctaatt tagtttagta tctcatagat caggggcaat 1320
 agatagtagt ccttcttagt aatagtattt agagtatagt agttaatata gaactgcagt 1380
 cctcctcta gtttttatat aaagaatact aggactgcag ctggggaata gcttatatag 1440
 ataaagcctt tctatagtag ttcagagagt atttccaga ggactattag ttcttcttg 1500
 gttatattat aaagggggcc ctaggggact tcaggatcct tcctactctc ctctatata 1560
 agcttaattt tgtaattaat cccctctccc tggtatggtg gtagttcttc agctttatct 1620
 tatttaaaga gccttaggta tttctagtat taccttagta gctttgtatg ggggttaata 1680
 tatctctttg gggccagtgc cttctgtata tctgctaata agactataaa tatcttgata 1740
 tcttgccat ggtacttttt cctttatata aatcctcta tggtttagc tgatatctgt 1800
 gctatgtcca gctttggtaa gggcctcttt gtagtactct atagacagac tccagtagta 1860
 cagaggtaca gcctgcccct cttagcctct aaccttctat tatattactc cagccaggag 1920
 agtcctaaga tcaggtcata gccagggtta tcaggatta tatagaagta ggcttctttt 1980

tctgtatata ccctgatatc tagctgaacc tatataatct tattaatctc ctctatattc 2040
ccagttactc ccttgaaagg ttttgggtgg ataggtatag taggtattta atatatctta 2100
ataaacttgt tactaattac cccataggtc aggcagcctg tatctattat tatacaagta 2160
ttataggtat agttgactag tgcttctacc aagaataagg gggatattat atacaagctg 2220
ctaaaatctt gctaattaag tagtatttct ctagctgtat aaccctctc tatataactt 2280
tgtatagagg ttattcattt tctgacttac tcttggtata gtcattgatt tggctctgtt 2340
cttcctaaac catggccacc tgcctagggc gtctggtagg ttttataggg tactcttata 2400
taaagtggtc aggattgctg cagcataggt atttgccctt agacaacctc ttttgcttct 2460
cctctgcagg cacctgacta gcttttcttg gggctctggc cccttttata tagagggcca 2520
caacttcctt ttatagggct gcaatttgag catgggtggc ttcctagtct atttaatcag 2580
aggttctggc ccagtcagag cctcctgctg gtcttataca agcaatatat atagggacag 2640
cagtgaaga tcctttttat ataagcctgg ctattctcta gaggttgtgg ttgatttcac 2700
gcagttaatt acagtagtta tcatacaaat cctcctgcct aataccaacc atggctttta 2760
gcaactcaat attaattacc atgtctaaca aggtcttctt ctggttatta tccaattaa 2820
tcctccagt attaagaagt tctttgtcaa atttattcaa gaactcttca aagtcgcgtc 2880
tccttgctt tattatattt acttatataa gagccttctt ctggttggtc ggattaccaa 2940
aggccttgct tagtactaca gagaattctg cctatagcac aggagtctca gatttctagc 3000
aagccaagag ctatggtagc atatgctggc tggcttttcc tctcaggcag ctgtaggcac 3060
agtaaacttg ttctcctct atagggtagc aggcagtgtc aattataaac tttgtacaaa 3120
gattcatcta gaaaggaggg tagtccttag ggtcttctct agtaaagggt tcaatatcca 3180
ggtgacaagg acagggatag ctttgtttgt aaggtaggg cattacagat ataactatag 3240
tagtaactgg tggatggttt cttagctgca agttctgtac agcctgtagt tctgcctata 3300
agctgttatt ctcttcttag agctgttatt tctaagtcta tatctctgta cagagctcct 3360
ggagctgctg tagcaacaat ataatacttt cttcttccat tgtcatagta aaaggtctcc 3420
tcatactatt attgagatta gtaagcgatt cctaagtta agggatgtat ttagatggat 3480
cttcctatct agacgtgccg tacgtacaag aaggaatcgc taaagaagaa aggagaaaga 3540
aggattgttg ttgtgaggaa gtcttgtagg tggctcaccg ccttcaggac agcacaggcc 3600

ttggccgagt cactaaggct taaggctcct gtataggcaa aggacccata acacattgat 3660
 tctactagaa tatatggctc taattttcag aaaaactacg aggggtcaact gtcttaagga 3720
 taatatttat ttctttggtt ttctcccaac agtctgccgt aaacacacct ttctgttagc 3780
 cgcaaccag ctgctgattc cacaccctgt ctttcaaata ttcttcagta tcaagtaaag 3840
 tgattccaag ccagtatcca tcagatctca ctacgacgac aggacgcttt tccctccatc 3900
 ttcagtcacc cggctcttta ctttgatctt catgtaccca ccaccaatt tggacaccgc 3960
 cggagttcca gatccctcaa atgtcacgcg gaatactgca cttggcgcgga agagtaaagc 4020
 ttcacccacg cgaagacgaa cgattcggct aagaaaagac agttttgagg acatgtgggc 4080
 ctggccttgg gattcctcct tctccgagaa cgttttgttg ttggattcca ctcccaaggc 4140
 agccgcggca acatgatgct gcaaagcacg aagccatgca ggggatgaaa atctgtggac 4200
 aatggtgacc gagcaaagac tgagaaggct ggcggagatg gttggctctt gagtggaaat 4260
 cactatccgg gttgcaagat ggcgttgagc tctcactg gatagaagag tctctgtaaa 4320
 gatctgcgct tcggctgagt ccttcatata ctgagaagcc aatgagacga tgtgcgggtt 4380
 gaggaattgg gctggcagta ctacgaacct tgtgagcttc atcgagagct actactctgc 4440
 caacattggt atcctgctcc aggaagacct caaagcaaaa attgaataat gcacaagctg 4500
 tctcaggaga aaggcaagga catgaaaggc caacgatggt cagttgtgag ggctactccg 4560
 gccagtcagt tgcaggagtc gcagggtgtc catttatggg agttcggagt aattgaacat 4620
 ctcacctttg gcgaccagct agttccggcg tcattaactg cctttttccc ctttttactc 4680
 gtgcttgcaa tgatttgctg gctgggcata aagctctcga ggatgtccag gcgttgccgt 4740
 agaggctggt gctgggaggg caggagatca gaatcaaaaa tccgtttctt aaagtcctga 4800
 tagtcgaatc tccctccaga aacctgctgt agaaggcgca tttccctcaa gactcgctgc 4860
 acagtatgga ggtacagggg gccagaactg ctcccttggc ctgctgtcat gagatccagc 4920
 atacgttttg tggtcaggct ttgctgattt atttgagcgg ggtgaacacg gattttgaac 4980
 ctgctgtatg ttttctgtat ggcctagtca gggaatgcgg caccggctgt ggctgtgtat 5040
 ctcccacctg aatatttcgg aaatttggtg gggcacagag aaccctcact tggacatttg 5100
 ggctggtggc gaggaaggca gcctcgcacg gtgaaccgcc ctggtcgccg atgaatgtgt 5160
 cgtaatggaa tacaactgct gtcagaggat tatgaagttg gccagccgca gacggaatca 5220

agcaccctc gagtaaacag gaaaggggtgt ggctcttgcc ggaaccctga gagccacaga 5280
 tgaagatact cgatggtgag ctaacattga agaaaagacg ggggtcttct ccataagcct 5340
 ggctatccag gtccggagat cctaacgcac ggagctctaa gacaccggcc aacaaacat 5400
 attgcgacgg taccaagttg ggctgtgtat agagcacggg gccagtaaac accggcgcaa 5460
 gagagacgtc tttagcctca tcacctgaaa aaccagctt caggagactg agctgatatg 5520
 ccgttcttga gtctgtatgc cgtgtcagtt cccgcatggc acgtgatata aagcagcttg 5580
 catttgacct gagctgtggg gggaatgtga gaacgtacgg tcatcagcat tgttgacag 5640
 tgagctatcc atcgtgcggc ggtgattcga gtcagcaatc gatctagcgc taggattgac 5700
 tttatgtggt gaaaatttaa gccaacgct aaattctcgt cgcagaagca tatatgtacc 5760
 acgattgaat acgccatcat tgttatagac ggtctactgt gggccatgta agatcttct 5820
 tgccaaaagc ttactaaaac ggaagtcatt tcccgttgtg cctcgtgcag caatggctcc 5880
 cggagtgggt gcctcctgaa gtagtctcct gttgcagcct cttgcagtgg tggcctcctg 5940
 gagtagtctc ctgttgacgc ctctgcagt ggtggcctcc taggttgag tcttgaagtg 6000
 gtggcctcct gtacctaaac cctacagtag tgtgtccttc tggcggcctc ttgcaatact 6060
 aacaatttat acgagtaatt ttgtggtgct ggatatagca gtggtacgca ctggtggccg 6120
 taggcagaac tgtcacatgc actgatgcc tgaacagcga gctaaatgtc tcattgggct 6180
 tcaatacgat taccactaat gtgagcttca ggtgcgaccg gagtcataaa tatctaakat 6240
 tctgtcttgc cctctgtgtt tctagcctta agtgtactta ccctgtccc actacaaact 6300
 tttcgtcttt caaacgcgat aaacatgaag caggggaaca gtctaacgct tgttccaaag 6360
 caaatcgggc ctccacgct tgatccatat ggacgactcc tcgcccgtt ctacgagtca 6420
 ttatttttct tgacgtctct cgggcgaaca caaggagaac acacccccga accacctgtt 6480
 ctggacatcc accaggaatg cagacggaga ttcttgaaga acctttccta tatctgcgac 6540
 ttcaggaaag gaggccaggc atgcactgcg atagcagttg aagatcgtgt ggactgctac 6600
 cggttctggg ttgcttcaaa catgaacgtg aacaaagcag tggcttttat tcgagaaatt 6660
 cttgcaatgt tgcacgacag acatttagat gcttcgaata atgagtcaat gattgaggcc 6720
 agtcttatc agcgttgctt ggaattcgtt gccaaagcga tcgatagtga ggggaggttt 6780
 ctccgcatta tggcaaactg atgcattctc atgcttgagg acgaagagtc ggaagcaggt 6840

atgacctttt tcctgagcaa tcttctagag cgggtaagtg ctgactgtaa ttaaagccca 6900
agctttatcc gaatgggttac atcaggccct cagctgctcc cgcaacatta ccctctgccg 6960
ctttctctac gaccaacgtc actcggccgc catgaaagag ctttctgcgc gggctatatt 7020
cgacaaagga agaccgggcc gcgccgaaga agactcgtgc tttagctctg ccaggcatca 7080
tattggtaga cttatccatc atatacgtgc gccgatagag ctcgctcaag acagtcgtca 7140
tctgatgtat ctacccgacg cctataccgt ctgtcctgtc agcccatgtt ccgctgtgtc 7200
atgcccgggtg tctgacatgc ataccaacct gcaggggatc ctgaactgga tgttcatggc 7260
cgacgacgaa gacagggtag ccgttgggga tggctctgtt tacatcaata agacgcggcc 7320
aatcttcgac acattcttgg ccgaatacaa cggtcgggat cggcaggttc acgctgagat 7380
tcaagttctc gagcatttct accagcagcg actctccttc ctggatggcg atcgctatat 7440
agcctgcagc aaaccggcgt gtctctgtcg ccaattgtat ttcaagcacc atccggctcg 7500
tatggctgta cctgcctccc accagaatgt ttatacttcc tggagcccc cactactgcc 7560
tcggtttgcc aaaggtgaca aggacacgca gctgcagaaa caggttctga gctacatggc 7620
acaagacatg cgagagcaga ttattcagca ggttttgcag cgctctcgct cgatgataag 7680
gcatcctgat tcgagaacct cattgaccga tctaccagct gaggcggctt ttggctttct 7740
ggagtagcaa cggaatacgg gagcacatat cagcgtatta aaatgagga cgggtggagt 7800
aattgggttt atttggttga aaaaaggttc gatcacctag tgtttagtct tttcatagtc 7860
aatagatctt gaaacttttc tacaattcga cgcgacgcat tcactttctt cttagtttcg 7920
ccattccctc atgactctac tcgcggatct gaactagcac cgtggatttt gctgtcagaa 7980
attgaggtct tcatacttcg ctaacaggta aactaagcag cgcattgatt ggaggactat 8040
ggggattgca tctcgtcaag ccatgacaac catcgctcgt acctacacag ccttgggcga 8100
atgtatttgg caattacggg gcgtgaacaa ggactgccga aagcataaca ttccctagct 8160
atgaagagtc ttcaatgtct cctccgctga tgctgcagta gactatctga tcgcgagaac 8220
gagtcgccac atacatcgca agaccatgat accacctccc aatactgctt ggccatttcc 8280
ttatggtttg cttccacatg gcggcgcgtg ctgcgttgtg tgccagcctt atgagggcac 8340
aggctgcaca agacaggttt gatatgttct ctgaggtgct tcctgtttga ttcagtcaaa 8400
gacatgtata aaatattttc caatagaact caccggagca tccatttttg agagtagctc 8460

tttttgctgc ggcattccaga ttccggacag tgataaagtc cgtcaggacc cggctccaag 8520
 ctatgcggtg aatatatattt ggtttcctgg aatcctgcaa acgggttcaa aactctttca 8580
 gacggtttca cgcgtcgacc agtgtctctt gatgagtctg cgttgctcaa tggagcgctc 8640
 ttgtcaaagg gtatattcaa ttctgttgat aggatattcg actcggcact ctaaagaggc 8700
 tcttgggagt cgacaaaccc gcaacgattg agttctccaa gggcgctact ttgtgcaata 8760
 gctagttcgc tgatttgcatt aaattgctgt tgatggctga acaataatcc agtccaccag 8820
 aaggggttgc tctcttctga agtagggaat aatgcccgat gtggctctat tggtaggagtc 8880
 gggtttgatg ttccacgata tgaggtcagc acacagcggc gggtcgaggt tgacttccag 8940
 tgacatccag tccccagcct gactattcgc aagagttttg gatcctagtc agtctattta 9000
 acatgtcggg tgtgcaatgc cagcggcttc tataatgggg acatagctgg gtagggccaa 9060
 cctacatgca ataggcgggtg cggccctgag gggtaaacct ggcagggtct caaccattt 9120
 atcctttccc ccgtagcaa ccgaggaatt acactttccc ttttttgaga ggggcctaaa 9180
 acccatgggt ttccaacctt ggcctaaaaa taaaaataat gttcacaggt actaattgct 9240
 tgttccggat aacatatttt tgggtattat ggccatttga gtgttgctc accaactaaa 9300
 tttggtgatc cccctctctc tagtgtgacc ccgaaaatta gctctttttt taac 9354

<210> 5917
 <211> 1725
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5917

tagtcgacta aaaaaattga agtttagatta aattttcaaa ttgatcaaaa aaaagaatat 60
 attttactat taattaaaga attttttaggt ggtaatatg gctatagaaa aagtcaagat 120
 acatattact atggatctac tagttttgggt tcagctaaaa atgttattaa ttattttgat 180
 tactttcatt tattatctag taaacatgtt aactatttaa aatgaagaaa agcatattta 240
 ataattcaaa ataaagacca tttaacaat gatggacttg aaaaaattat aaaattaaaa 300
 agtacaatga acagagtaaa tgatactaca atttaagata aagtcctaac aaggatgttt 360
 aattcttgag tattaattag aatagattat tattattatt attaactatt cgattaatca 420
 aaatttttgt tatattttta ttataaccagg ttttgggtata attagtagac ttattgctgc 480

tggatcagga aaaaatgtat tcggatattt aggtatgggt tatgccatga tgtctattgg 540
 tgtgttaggt ttcttagttt gaagtcacca catgtatact gttggtttag acgttgatac 600
 aagagcatat ttcacagctg ctactttaat tattgctgtt cctactggaa ttaaaatatt 660
 tagttgatta gctacatggt atgggtgggtc attacattta acacctacta tgttatttgc 720
 attaggtttt gtagttctat tcaactattgg aggatcaagt ggtgtagttt tagctaattgc 780
 atctattgat gtagcattcc atgatacata ttacgttgta gctcattgcc actacgtatt 840
 atctatggga gctgtatttg ctttatttag tggatgatat ttctgaatac ctacattatt 900
 agggttatct tatgatcaat ttgcagctaa agtccactgg tgaatcttgt ttattgggtgt 960
 taatttaact ttcttccttt ttcatttctt aggtctacaa ggaatgccta ggggaataat 1020
 tgattatcct gatgctttct atgggtgaaa cttactaagt agtatagggt caattattag 1080
 tgttgtagca acatgatact tcttaacaat tatatacaaa caattaacag aaggtaaagc 1140
 agtttcaaga tacccttgat taacacctca attattcagt gatacattcc aagtgttatt 1200
 cactagaaat aatagttcat tagaatgatg tttacaagt ccacctaaac ctcatgcttt 1260
 tgctagttaa cctttacaat cgtaaagtct aagtttttgg taatagagtg ttaggcaact 1320
 gtagttattt ttttttttac tctagctagt tatataacat atttatataa aatatatact 1380
 gggacagtaa ctgtcctatt aggttatatg catttacaaa taaatttaaa gaatctattg 1440
 aatcattttt atgatcaacg ttatttacta ttgatgcaa ctgctatcaa aaaatctgtg 1500
 gatataattt tgtaaaacat tacctaattt tagtaacttt tggatatataa gggtacgatt 1560
 attcatcaac ttatatacgt ttagcaataa aaagtgtaaa gtttgatctt taagatgttg 1620
 taaagataga tagtagttct aattatgatt actaattaaa atacttttac ctgagaatat 1680
 aaaataatct ataaaataaa gtggatacag taaagcccta tcgta 1725

<210> 5918
 <211> 12195
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5918

tcgctatctg ctcgggcgat atccttgcag acttcctctc cagcaatcaa tgcgccatcc 60
 gctaacattt tctcagacca atacaggaat tggtttgacg aagatcctag acttggtgctg 120

ttcaaccagg	ggacgagaga	attgaacact	tgcagtgcct	cttgaggccc	caaaacctga	180
tgctgtgcag	ctcctttgat	atagcagcct	ttgagaaagc	aagctctggt	ccatggcgac	240
agttcatcac	ctgtagccgt	cagggcgctc	aactcctctt	tgaagtcttt	gggaagacgt	300
gccgcagcca	gacccggctc	attcagcgtg	tagtgaaccc	atcctaagca	aacctgcgcc	360
tggaaatctt	cctgtttcga	cccatctgcc	ttgtcaatcg	tggaaaggag	cgatgggtatt	420
aattctgata	aatcggtagg	ggacgaggac	ggagggcttg	cggttgacgg	agttttgtgg	480
aagtgagaga	cgatctgata	ctctgctcta	gctacatcaa	ggaagcctat	cctcgccagc	540
gttagaatgc	gaactcggcc	aaaagggatg	acaggtatct	acaagtcttg	tgaggtgcct	600
gtttgttgac	cttccggatt	aattcaggaa	cctcatccca	tttattttga	cttcgagcat	660
tatccagggc	aaccacatag	cgatggccct	tttcagactc	tcgcgccttg	aacattttgt	720
aacagagttg	aggattagac	cggtgacgta	gcggggctgc	aaagagcaca	ggggttgtga	780
gtgagcgagg	tacaacactt	acactcattg	tgaaggagga	tcggagttgt	aggaggcacg	840
gcaacggaat	ctagggggag	gtccagttgg	caaaccgctg	tccatcacga	gcgccgtccc	900
cgaggctcga	agtttgctag	gtagttaact	ggaatactgg	ggagagatcc	ttgcacaagt	960
acaaccacgt	cgaggacgac	gacgacagcc	ccaggaacag	gcagatcgct	attattcggc	1020
caggggagat	ccgctgtact	aacttgtatc	acggctgtat	tattacgttc	cgaggcttca	1080
tgtggtggtc	cgagctttgt	tatctcaacc	gtatcaaatt	tatttttcag	cgacttttcg	1140
cgggttaggt	taagagctat	cacaagctta	ggaccacact	cgccggcatt	tagggtgtct	1200
ctagaccttc	ctcttcagaa	tggcacactt	atatttaagt	ttacgcgctg	tcaatcaccg	1260
attgaccact	ctaccggctc	aaaaactgcc	tgctatcgcg	gcttcgctcg	cagcctctat	1320
aacagaatgt	ggagagttgc	tctcggcgcc	tcagtcccag	aaggctggca	agtcagactc	1380
agatcattcg	gttcaggtac	acaagctggt	aaccaggatt	tcgagtcttc	tgcaggatag	1440
atcgtttgag	ggccggtggg	ctgctgtcgt	gctcgtcaag	gccttagtgg	aagctggaca	1500
atgggaaatt	attcgtggaa	gtgagccgtt	tgttcgcggg	cttatgagca	ttttgagtgt	1560
gagaatatca	aatcatacac	ctgcgttcaa	gtagattgct	aattgttggt	caaacagaaa	1620
tctgaccctg	cctctactaa	gaccatggcc	gtcatcacct	tgacgcggat	cttccatctt	1680
acgtaccaat	atcctaccct	tgttcgcgaa	ataacgacgc	catcgcttcc	cggattcatt	1740

acaactacct taaacctcat ctctgtcaag cgcacatctg agcctacccg aagcttgaaa 1800
 cccaataccc cattcttgga ggttggttctt cgctcctatg cggaactcat tgcccggcac 1860
 cctaccatct tccgcccgtt cactgcacag atccacagtc tgcttcaaac catagttggc 1920
 tcaacctcag cattatatct cccgtcagtg gtagatgtcg cggagcaact ctttattgct 1980
 cttcaccatt gtgccccgaa gaatactgga ggggaagagt ggaagagtgc ttgccgcatg 2040
 acaatcaatt caatacatgc tactgggaat catgtgttga gggcaattgt ggaacagtgg 2100
 gaatctgtgg atccggcatt acgacagcaa ttaagccatc ccattgacta tgcactcgag 2160
 gtggaagtca caaaactgac gcactaggac ttaccggctg gcaagggctg gatgcggggg 2220
 tcgaaagact tcttgcccta ttgaggatgc tttccacttt cctagccact gccaccgctt 2280
 ctaccgtatc gattccagtg ggttctatac tcgatttgac tgcgcgcttc atgtctgtgg 2340
 tcgtcccatc agacgcaggt gatgtacaag ccaaccgtca agtcagtcgg acggaaaggg 2400
 aagctctttt agcggaaact cctcgtatac acgttgcttg tatcaggatt cttcgtgcct 2460
 tggtcggcac gctggaaacc gccgggtctt ccgtcgtca gacggtcttg gaacaaactc 2520
 tttgggtctt ccgcgcggaa aaattcaaca agaagatcag gacttcggta tacgatattc 2580
 ttggtgcatt gatcaaacat gttggcccgt ctatgaacaa gaagaacgtg gcctctttga 2640
 ctgacatgat tcgaacctgt tgctttgaca ttctgcctca agtcggagaa tatggcacia 2700
 aagacacctc accagctgca aatggaaagt ctaaggcgaa ctcagctgct gtcaatgcag 2760
 acttcttctt gaaccccagc ctcaagcaag gtcgcggaac gaacgcgacg actagaccac 2820
 caaggctcgt tcgaaccgcc tccaagctcc ttcaaattgt tctcagccac atcgactgg 2880
 aattcctcgc gcccccaatc cgcgcagaga tcgaccgcac catcataatg acctccgaca 2940
 aggacgccat gtacgccagc gttctcaacc cccaccagc cgtgaaagga cgcggacaac 3000
 tattagcatc attcctttcc tagccaggag ctacgcatct gacatgaaca tggaagcact 3060
 cattcgaccc cggctgctg ttttggcgcc ttcaagttat accggccact acgtcaatat 3120
 tgaggaagac gatgacgaag aaatggaaca tggtgccatg ccggagccca tccaagcaga 3180
 agaccccgc gttttctga aaccagccgc caccctaata ctccgagacc tcgtggactc 3240
 taatgcgccg cagagcttca ctgcatcggt aaataagcgc acttacactg aggaaacgtc 3300
 ccagaattcc acaccttcg ccagtttccc ggtaatggta gacaaccttc aaccaagaa 3360

ggcaaggttt gacagcagtg tatcaacgcc gccagctaca accctatctc aaccgtcttc 3420
 ttccacagga acccttacct ctgcagctgc accattatcc tcagttcaac ctgccacaac 3480
 cctggcaggt acaaccatgg aaacgtcaac agtcggcgat agcgtcacta ctagcacaac 3540
 ttccgtcatg gtggagcagt caactacagt tcctagagtc gaagcggtag cactgccgga 3600
 ggaggcagat agtgacgaag agatgccaac ttggaacatc gagccggata cagacgaaga 3660
 ggatgaggag taattaaaga gaccaagacg ctaaatttga ttcaagatat acacagacca 3720
 acatagtctg gagtggacac catataaaag cgcattagtg atctgaatgg taattgcgag 3780
 aatatatata ttggttgcca gcttgcatct tgaattcggg tattaccaga agccaactta 3840
 tataagtccg gcctcatatc caacaacgat gtctatacaa gagtggcttt tcctgcgcag 3900
 gtgctctgtt tattctactc tattttctaatt tggctgaatg cccggcttta tcatgcaaaa 3960
 gagaggcgaa aagtccaact accctacata acccgcacgc cactcccca aaatgtcccg 4020
 tcatcatggt acttaaacca aggcgcctc caacaaagcc aaccctggcc catcagcccc 4080
 cgaagtagac taaatggcaa tggctccgtt aaccacatcc cgccatttgc aaaatcatcc 4140
 gcaatccgat atcccgagaa gaaaagccac ctagcacaa aagctacatt gccggttcgt 4200
 cgagccagc gcggcgggtgc aaggccagac cgcgtcagtt gtgctaccac agcacgagcc 4260
 cataaatctt ggacaaagac acccacggct tgcaggatga agaagaggaa ggttccggta 4320
 acgggacggg tggtctcgcc gagttgcgtg tagcttccgg agccatgaat gagtccgcta 4380
 attccaaaag cgacaagggg ggtaattatg cgtcttataa tccgctgtga ggatactgat 4440
 gctgggagaa atgagataaa ccatttcgcc gttgacacga agccgaagcg gaagatttga 4500
 tgccaccatt taccacaggc acctgcaagc ccgtcgtcta gaatagcggg gatcggggccg 4560
 aactggtcgg tgtagagcca gggcgcgctc agaggcgtt cagttagtgc acgagatgcc 4620
 ttgggaaagg ctgtggataa gccagaaaa catattggat tcagggccgt cacgaataga 4680
 agagcgaagt aaacggcggc accagtgcg aaagaacggg atgcccggat caaccctggg 4740
 aagattgaaa gatattcgag gggaaatgga ggtgttcggg atacactgcc caggaagtac 4800
 ggatcccaaa tcaactaccag cttgaggatg tccagggcta gataagccac gaagaaacaa 4860
 gtgaacgcgg cccgtatacg gctctttgat tgaggcccag cgcgtacagc gtctgctggg 4920
 ctatttttgg gatcgagttg agaaggcaac ggtccaatg atgagattcg gaagctgaaa 4980

tctggggccac gcatattcag caccagagcg agtaccacaac cgagtcggtg cttgaacgat 5040
cgagggtatg gctgccacac taaagtgtac gcatccctct gtacctcgtc ctgtccgtac 5100
ttcttgctgc tcgtgtgccc attctgcttt ccgacaggac tcttttcttt gatagaccgt 5160
actctttcaa tccttcggaa atcacgctcg gcattgttaa agaaaagaag ggtggagctc 5220
caaacaagca accataccat gatcaatcca accatatacc catttcccc cagtagcaca 5280
cgacgatatc gtatagtctc agcgcttatg ccaaggctaa tgacatagag aatctggcgt 5340
aagatactgc cccctcctct gcgactgggt atcaggagcg cacatatgag caaaatgaca 5400
gggagaagcg catgccaaag tagtagcggc ttagcatctc catttcgaat gaaggtctca 5460
tatcgctcgc gcgtatcgag aacgatgcgc tcgtagcgag agaaggcgga atcaggatcg 5520
accattgacc gcagctaaga gatagcgagt gaaagaaaac tagccaacgc tgaagagcag 5580
atatgacaat gcgatggtgc aaatgagtga aaaaccgtca gtgtaagcac ccaagttcaa 5640
ttggaccctt ccttgacgcc accgacgata ttgaaggggg caaggaggaa aatcgagatc 5700
gataatgcc cataatcatg cttcataatc accccgccac aacagcgttg ctgctccagg 5760
gtgtccacgc attcaaatga cttgggcagg cctagttcca gctgttagcg tccatatcag 5820
aaatcaaata tagacgcttt gtaccttcgt tcgcattttg ggagcataca gactgctgga 5880
ggtatatattg tgagcaatcg ccggccaacc tcaacacacc gacgctgttg tccaaacaag 5940
tcaatggcca cgctagtgat gaaccagaga gaaaatcatc gtgaagactg tccaccattc 6000
ctaaatatgt gctgctctta aagtttgaca agaaatctat ttcgcggaca gtcaggattg 6060
ttcctttata gaactatgct taaaacctat ctttcaataa tatggcaaga tggccgagcg 6120
gtctaaggcg ccagactcaa gaaagcgatt ttcttacctg aacaaggttt ctggtcttcg 6180
aaagagggcg tgggttcaaa tcccactctt gtcaaaactt tttttttttt ttactctct 6240
ctccagaccc ggctggtata ttttgataag attgcagtta acgcgctccc caaccaagct 6300
ggaggttcct cttcaaccaa agattatgga atcccgatcg aaaaaagat ctatacacct 6360
cgtcgactac gctcccggcg aagttcacga aggggctccg gctccgccgc cgaagtaccc 6420
gcgtatagct gggcagcgtt ttggccagga caccacattt attccctca gccaggcatc 6480
gcaagtctcg ctccaggaag acgaggacga tgctgccgcc gcagatctcc tccaagacaa 6540
tcaagtagtc gatgattttt cagatactac acagcttcat tacggagact tgaatactaa 6600

gatagttggg	gtccgctatt	acaggggaac	agccaccatt	ggggaacatg	ttgctctgaa	6660
gagagagccg	cgtaatcaat	acgatgggaa	tgacgtttcg	cgtagataac	gctatgggaa	6720
ctcaaattgg	tcatattcct	cggaatatgg	ctgcaaagct	agcaacttac	atggtaagct	6780
cgatagtctc	tcgagcttat	ccgtctttta	gctgacctac	tataggataa	caggctgttg	6840
gttggtgagg	gtgtcctgac	tggagtcatt	ggcgtttttg	attgcccaat	tgtcctgaag	6900
ctgtatggcc	caagtgcct	agaacgaaga	gaagcggtga	aacagagaat	ggtgcaggat	6960
aagctgccac	tcaaccatct	caaaaaggcc	gagcgtgatg	aaaagaaagt	acagaaagag	7020
cgggaaaaag	ctgtgaaaga	agctgccaa	agagcgcgta	aggggcaatt	gctggaagct	7080
gcgactaatc	tgggctattc	caatctttcc	caaccgttcg	gggaagggat	cattacggaa	7140
gagagcctgg	atgagctcat	caaccaaagc	agtacattca	atccccgcga	gatcaatcgt	7200
gtgactgaga	gttttgggtt	gaaggagtcg	gacttggaga	acatgcccat	ggttgaaagt	7260
ccctcttctc	tctccaccac	tcttcttccc	taccagcgtc	aaggcctggc	atggatgatt	7320
agcaaggaga	acccgggact	accgacgagc	gacaacgatg	tggtagagct	atggaaaaaa	7380
gaaggcaaca	agttcaccaa	tatcgcgacg	aatttctcta	cgactgctcc	accatcgctt	7440
gctagcggtg	gtatcctggc	tgacgatatg	ggcttgggca	agacaattca	gattatttct	7500
ctgatactat	cgaactcgca	gccaaagacg	aaagaatctt	ccaaggctac	tttgatcata	7560
tcgcccgtag	gtataatgag	caactggaga	aaccagatcc	aagaacatac	caaccggag	7620
caagcaccgc	gtgtgcta	ctaccacggt	cctggaagga	aggaggatgc	gaatctagac	7680
cactacgacg	ttgtggtcac	tagctacggc	acccttgcca	cggaatacaa	gacggagagc	7740
aaagccacgc	cccaaagg	tttattctca	gtcaagtggc	ggcgtgtcgt	gctcgatgaa	7800
gggcatacaa	tccgcaacc	acgatcaaaa	ggtttctccg	cggcctgtgc	tttgcgagct	7860
gactcccgtc	gggcattgac	agggacgcct	atagtaaaca	ctttgaaaga	cctttactcc	7920
cagattcgct	tcctaggact	cactgggggc	ctcgaagatt	ttgctgtctt	caacagcgtc	7980
cttattcgac	ccctcatgtc	tgacgatccc	gactcccgtc	tactgctcca	ggccctcatg	8040
agcaccatat	gcctgcgtcg	cagaaaggac	atgggattcg	tgaacttacg	tctgccaact	8100
ctaacgtctc	gtgttctg	cataaagttc	catcctcatg	agaaagagaa	atacgacatg	8160
ttccagtatg	catccacaca	ggcatatcca	tgctcaacta	tactaacacc	aaactagatc	8220

agaagccaaa ggcattgtcc tcgacttcaa atccaataat aaaaccggca ccacctactc 8280
 ccacctcctc gaagtcatcc tccgtctccg ccagggtttgc aaccactggg ccctagccaa 8340
 aaaccgcctc gacaagcttg ctgctatttt agacaaacat cagaccgttc cactcacccc 8400
 tgacaatatt aaagccctcc aggacatgct ccagattcgt attgagagcc aggaaatctg 8460
 tcccatctgc ctggatatcc tcgaaacacc tgtcataacc gcttgcgctc acgccttcga 8520
 ccacgactgc atcgaacagg tcattgtccg ccaacataag tgtcccattt gccgcgccga 8580
 aatcgaaaat aaatcaagtc ttgtcgcgcc agccgcagac ttggggcgaga atacagacga 8640
 cgtgtcagca gaccgggaca accccagcag caagattgaa gccctgatca agatcttaac 8700
 ggcgcatggc caggtagagg ccacaaagac cgttatattt agccaatgga cactcttctc 8760
 gactctcggt gagccgcacc ttcaaaatgc cgggatccag ttcgcccgca tcgacggtaa 8820
 aatgacatcg atagcccgcg accgctcaat gcgcgccttc tccacagacc ccaagtgcac 8880
 tgtgtctctc gctagtttga gcgctctcag cgttggctctg aacctgggtg ccgctaata 8940
 ggctatcctt gcggatagct ggtgggcccc tgcaatcgag gaccaggctg ttgatcgtgt 9000
 ttaccggctt gggcagacac gcgagactac agtatggagg cttgtcatgg aagacagtat 9060
 cgaggatcga gtgctggcga tccaggagca gaagagaaag ttgatgctcg ctgccttccg 9120
 ggagaaggcg agcaagaagg ttgatgatcg agcgacacgt gtggcagatc tggagaagct 9180
 cttaacgtga agcgcaaata cgcagcttct ttattctttt tttatttctt tcctactcct 9240
 gtgtgtttac gcttcttctg tgagtggatt tattatgtag aaccctgtt gtctgcgttc 9300
 gtctatggac acatattcta cttgtttcaa cagctctact tatgggctac ataccttacc 9360
 ttctacgttc atcagtctcg ggctattttg gagaagatgg aatcaacaag gttcaatcag 9420
 tttgtattat actcaacctc gcataagcat tggatatttg tgcaaccgag ttcataata 9480
 ccatcagttt catgtctggg tatcttgtcc aatgtagaaa acgccggcgc aatgccagta 9540
 gggtaaatta catcgattcc ccgctagaac cgggcagaaa aaatgatcaa aaagcgaaaa 9600
 aaaaatttgc agcggcacag ctttgtgaca tcgtacatca taagacgcat gtaaaatatt 9660
 ttacagggtt gaatagttca atagctggaa cagagtagaa tgtattaaga gaataaccga 9720
 gaacctcctg tcagcttgca gtttttagga tcagtttgac tgctgcttgc atgggcctgc 9780
 tggctgtttg cctcccaaata ctgaagcggc ctggggatag gtcattggctg ctcagatgca 9840

ggagcttggg gtgtagactc tttaggttga agcggcattg attgacttct tggtgaaaat 9900
 ccctgctcgg cgcttggttt aggggggtta aatataggag agattcgtct tagcggttca 9960
 gacccgacct tatccgaaaa tgtctgccta cggatgaatcg cagtccgaag cactgcttga 10020
 gcacccgcaa ggcttgaggt tctcgtcgcg gacgacgctg actgggtgtgt cgctttaatg 10080
 gaaggttttc tcgtggaggc catgataagc tgttgacatt tttggacttt accatttggc 10140
 gactgactat gcgacgggtg cgagaggggt tgaggcttcc cttgcccatt aaccaggggt 10200
 gtttcatcag gcgcaggggt acagagacca gacacctgca tgtttgctaa aaagggggat 10260
 gccctgccga aatttgaatc cgcgactgcg acatgtgcgg aaattatatc aggcgcgaga 10320
 gcaggtggac cggattatg cgcactttgc gggactgccg gttggaggga ttgctggact 10380
 gcatgattta cgctagcagt ggggtggtgcg ccgttaggtg gattctgccg ttgtgattga 10440
 taagcattag ggccgactgg gactgggatt agagaagcgg gttgagctcg ataaggctct 10500
 tcttgcattc gcttgagttg tctttcagcc actcttttgg catacgagc tgggtcagtt 10560
 cggcggaggg tttcgtcgtc gaacgcctcc tgcacagtcc tcttttcttc ttcagtaagc 10620
 ttgtcatcat cctcaacaag gaatgtctgc gtaagcttga tatcgcggtat taacttattt 10680
 tctgcgcctt tcttctcgtc ctcccgaagg atcttgtcca gaacagcttt gtctttgccg 10740
 atatgctctg aaacatcctg ttgagcgaca ggtctcgcag ggaagatata atcgccgggt 10800
 ttcttgtgcg cagatcgaat agggtttctc ttatccacaa cgcgaacagc gagctgcgtc 10860
 ttgtaagtcg ctttttcgtg gatgatctct tgaaaagtcc cgccggctat gaatctgtag 10920
 acaaacacag gcttttgctg ccctaggcgg tacgcacgtc caattgctg ctcttcccag 10980
 attggactga aggagaagtc aaagatgata acgcgattcg cgcccgtaat attcaggccg 11040
 agtcctcctg ctctagtcga aataaggtat acctgctttt cgccctgatt gaactttttt 11100
 gtagctgctt gcctggtagc agccggcgtc tgaccatcta gtcgtgagta ctgtcgattg 11160
 gtgaccttca ataaacgttc taagtagtca agtgtgtgta gactttgtga aaagacaaga 11220
 actttatcac cagccctgat agattcatca atgatcctct tcgttattac cgcgcgaaact 11280
 gaaagctcca cagccttcag atcatggacg ttagcaaaaa tacggagctg ttcggctaca 11340
 agtcctcca ggtttcggat tccagcattt tcaatgaatc catcgccctaa ccgatctgga 11400
 gatattgcct ggtcaacgtc gctcgtcttt ctggtatcat tcgttttttt tgaggaaccc 11460

tgggcctgac tgactagttt atcctggaaa catgctgggt gattgcagca taatcccaga 11520
 atagatagcc acgaccataa ctgtgtctgt gtgacctcat ccattcgtcc ttgtagaata 11580
 aacgctgcgt acatatcata tgccctcttc tgtattttgg tgagaggtac agtcagaaca 11640
 aactcgactt tcggcggaag atctccctca agggctgtga tgtccgcacg gttgatcttt 11700
 ggctccaaga tctgcttgag aacctggagc ttcattaaag atttccgctt ctctccatag 11760
 gtactgtcgg cataaaggcc ttcctttata ggttcgatat agtttgcctt gaattcaagg 11820
 aaacttccga ggtaatcata agaaatccag ttgaccatag tatagtagtc gccaaagattg 11880
 ttcgccagag gagatccagt caacgcaatc cggcttttgg aacgaaattg cattgccgcc 11940
 tgagacgtcg cggagtctgg attcttcatt ttatgagctt cgtcagcgat gatgatgctg 12000
 gggccctcta aaagccaatg cttgaggtct tgatgcttag aatctgacag tggcgggctt 12060
 ttcttagctg tcgcttggtt gaggacccaa ttccggaaga tatcgataga aatgagaaga 12120
 actccgccct tctcattcca cagtagatta ctcaaccagg cgcaaattcca tattgtcttc 12180
 tgatgacacc tgtct 12195

<210> 5919
 <211> 6308
 <212> DNA
 <213> Aspergillus nidulans
 <400> 5919

tcatgacatg tacaattcgc ggccgcataa tacgactcac tatagggatc acccaagcac 60
 tatacgcgtt tcattatata tatatattta aatctggaag taatctaagt agcataaaag 120
 agtaatccat aaatacccaa gtagactcaa tcgacgtgcg tcaaattggt ggcggcggtt 180
 gtccgaacag gcctcggagc agcgggtgca gccctccgct ctctgtctgg ttttcttcac 240
 cccagcatcc tagtttccgg tgcccttcct ccatttcccc gttcctctgc tctaccccaa 300
 cctcttgccc tgatcattct cgagaagctc tttcactaga gttatcgctc ctcttcccct 360
 tccagagtac tccttcgcaa tggctcccat cacagatgac gtggtcgctg gactcaagtc 420
 cacgatcggg aagctcgaag ctgcgattga ggacttgaa agccgcctcg gcggtgaacc 480
 caagcccaag tctatcgcg agcacatgag aatcattctt atgggacctc ctggtgccgg 540
 tatgttgga tatacgaat tgttctaata gatctctaac ccggagctag gcaagggtac 600

gcaggcacct aagatcaagg agaagtactg cgtgtgccac ctggtaagta gtcgcggccg 660
gatgtacagg gtaatatgac gctaattatt ccttccttag gctactggtg acatgctgcg 720
atcccaggtc gcgaagaaga ccgacctcgg aagggaggct aagaagatca tggatcaggg 780
tggtctggtc agcgatgaga tcatggttaa catgatcaag agtgaattgg agaacaacgc 840
agagtgaag aacgggtgtg tattaccata ctcatctgac ctacaagccc tgacgccggt 900
tcgcctacag tttcattctg gacggtttcc ctgcactgt cgcccaggct gagcgctcgc 960
acgagatgct ggttgctcgc aaccagaagc ttcagcatgc catcgagctt aagattgacg 1020
atgccctcct ggttgcccgt atcacccgtc gtctcgtcca cccggcttcc ggccgttcat 1080
accacaagat ctttaaccct cccaaggagg ccatgaagga tgacatcacc ggcgagcccc 1140
ttgtccagcg ctccgatgac aatgctgagg ctctcaagaa gcgtctggtc acatatcacg 1200
cccagactgc ccctgtttgc gattattaca agaagactgg tatctggagg ggtatcgacg 1260
ccagccaaga gcctggtcag gtctggaaga gccttctcgg tgtcttcaac aataagaact 1320
aagctattta tttgcttgcg tacgcagttt gctgaaataa tgtgcgtctg tattcttgat 1380
ataagtgata tgagcgattg tcaggagaat cgtaaattggc tttgccctgc ctttaaaaaa 1440
agcaggtttg ggaatagagc tgtctcaggg gctgggtcga gatatagaca actggggctc 1500
gctatgtaca atagttcaaa gatcgtgctg tatgagattc aactcgtcca tgatccgtag 1560
ctttcacagc tgagtagggg aaacagtcga ctcgatcttc tcaggataag tcaaccatt 1620
ctgccttctc gcctcatcca ttacatccat aatcacaata ctctcctcta gagacatagt 1680
ctcactctcc aatttcccgt ccctcagaca tcttgctacc tcactgcct cccagtacat 1740
gccccttcg tttggcaggga agtcgaactt cttctccttg aactcacca taccctggcc 1800
tttcacaggg attatgcgat acacctctgg ccggaacgct ggcccatcga cttggatctc 1860
cccctttgtg ccctggatac ggatcgctgg acgagcgggtg ttggtctcaa tcggatcggt 1920
cgcaacacga atagacgtgg atgccacggc ttgggattca cctggatgct cggaattgga 1980
ggcggttgtt gtcgggaacg acaggaggat cgtggttgcc tcgtcagcac cggtgagggtg 2040
gtagggcggt atatgcgag agacgcgcga gggaggcttt ctgcctccc tggggagggt 2100
gtggtaaaga gtctggaaga cccaggtcag agagtagata ccgactgtac actgttagca 2160
tgcagtgtta taataaaaac gcatgagagg ctaatgacat acggtcaagc aacgcttcgc 2220

cagccaaatc cttatttacc atccgatgct ctgtgctaaa cttttcttca ggcgtacccc 2280
caaagctatt atccgccgta acccttaaca cctccccaat ggcgccgttc ttgatcaact 2340
ctcgaatctc aatacttagc gggaagtacc tcgtccacac agcttcatt aggaatagat 2400
tcttcttcg tgccgtctca accaaaatcc gcgctgctg cgcattcact gtaaagcct 2460
tctcgcagag aacgtgcttt cccgcttcca gacagagcat gacattctgg aagtgggtgcg 2520
agtgtggggg tgcgacgtag acgacgtcga cgttgggatc ggccaccaga gcttcgtagg 2580
atccataggc ggtgcagggg gagggaatcc cggatattgc aataaatttc tcggcgcggg 2640
acgctgagga cgaggaggag actgccacaa ctgtgtggga gatgtcggag gctgagcggg 2700
tagacgggtc gaggaggagg tcgcgacga atgctgccct tatcatcaat atggctcgat 2760
cgtgaatggg agctctagt cttaccatct gcaattccgc cggtagctgt agttcaattt 2820
atgccgttgt tagttgcttg tatctggtag agcaaagagg ggtcataccc aagatacccc 2880
accgatgtt gtaaggagcc atgttagaat agtctacgtt cgtaacctga caaggaaggg 2940
caagcaagaa gaagaggggt agtcaggagg taacagttga ataggagaaa cggatgcagt 3000
atttataatg tttgagacag gttagacttt atccattcct accacggagt tacgccgtgc 3060
gggtcgcggt ccatttttcg acgtcattta atgagagacc atgcggggta gacagcgtag 3120
tacaacagta cacataagtc agagacttgc taatagatga cgctggcata gttaagacta 3180
cctctatata caaaagcacc agatagtcag atgctatata agagaatcag aacaccttgt 3240
aggtagatcg cgccatgaag tatgtaaatc cccgcaatgc aaaacaacca ccgggtaaat 3300
gcacgcttag tatccggcaa aataggaaat ggtgacggtc tgtggactag taggaaaagc 3360
ataaagcaga tgcgataact tttcaagtgc tttcgccagc taagactcgt gctgtttaga 3420
ccggctcggg cttgatccgc acgttctggc taggagagtc agttccctga ggacgttagc 3480
atacagctca tggatattga aggtcctacc taactcacct cagcttttcg cttgcccaga 3540
acagagtcag gggttccagt acgccctgat ggcgtttctc gaccacgagg tggcccgtct 3600
ttagtcactt ccgcatagca gctggcatgg tacacacgat tgccgacctt tattgcgtcc 3660
tgccagatcc agtcttgaac atcttccgac caggtagact caaacttctc ttgacagatg 3720
ggacacgggt tgttgcgcaa cgtggcatcg ttgggtgccc gaatccattg tttagccggg 3780
cctttctttg actcgtctgc gttgccagcg gtattctcgc tcgtagcttc cgcgtctgtg 3840

ataacttggg cgtctcccag ctctcgtgat tttatccaat cctgcttgag gttagtgaga 3900
 actagagaga tgtattggcg ttacataccc gttcatcaac gtaccaactg cggttctgag 3960
 cgcgccgagc ggcatcagcc atccgttggg ttgtccgaaa gtgccaatcg agatgtcggg 4020
 ccttcttctg tttcccttct tcagttgcga agaaccgacg gccacaagtg ccgcatctat 4080
 tagatcgtgc ttcgtagaga ctggcaatca acatgctacg aggtctacga aatgattaga 4140
 gcttgtagcg gaacctacta ggtacaactt acattttgat ggacgcggtg ttcatttgaa 4200
 cattaacttg tacttctgca gtactcaccg cttgcggtgt gggcacgggt ggcgtatatt 4260
 gcacctgtcc tggcactatg aatgggaacg cacctgcggt aggtgatgga actgaaccaa 4320
 atgggtggtgc ggaggacgca ggtaagagcc cctttgctct tagagctgca ataagtggat 4380
 tctctggtgc tgaagaagggt atttgtggag tgctactgac gggtagttgt ggaacagagg 4440
 gaacttgggg tggagtaggc tgctgccgcg cagcgtggc tttgatgagt tccgccagt 4500
 tccctgggtt caagagctgc tgaagtggct gcgagaatga ctgtgcgact ggcggagtgg 4560
 ctatggtcgg ggctgatgtg acaggaatat gggaaggagc gggctgggct gcctgtatgg 4620
 agggcttggg agcgagcgct gacacttgat cacggacaag tttgagctgc tcttgggtaa 4680
 gttgctggcg ttgcataatg ccttgcaagt ctagaagcgc ttttaagtcgt tgttgaacag 4740
 atgggtcaag aggattattg gcgaattcag ttcgagcagc agcaatcaag acttcaacat 4800
 cccgattcaa agatgaaagg tcaacttctt gtacctggag atggggcgctg ggagttgacg 4860
 aacaggcaag ggatcgccct gttgacatta gagactttga tcacgaatag gacacacaat 4920
 gctgtccgtt ggatatccat ttgatgcagg cctatggcct tgcaggagag attgcggccg 4980
 gaaggaatcg accgggcatt tggggtgatg tgagagtgtt tcgccagcca gaggagtccc 5040
 aactcggctg cggttgaaaa catcctgctg gcctctagct tgctgttgct gaagggcagc 5100
 agtcctcgct ttaatcaaag cgttttcgat gctgcgagt ataccggcg gaaaaaccgg 5160
 cctcgtatcc aaagaccctg gaactgggtc tttccaagtc ttcagcatct cgtccagctt 5220
 cctgcgggtt tgtgagtcga ccagcgtgta tgcgttcatt aaagtctgat acatgttcct 5280
 cccgaggaac agagtgtagg gagtgcctac attcttcaca atcgagtcga ctacatacaa 5340
 cgaggtagt ttctgagccg gcggtgtcta caaagcgagg ttagagcttg ttcattccat 5400
 caaactacaa taaacggcag acgcagaggg aatctaagag atgtcaccta ctgttcggat 5460

atgattctcc agaacgcggg agatggccat cgcattgttca gtgttttctt ttgcaatgac 5520
 ggttaagttg ctgatctgaa acctgtcatt ggtgggttagg tcttccaagg agttcttgta 5580
 gtctcggca acttcatcag aggccagcgc ggctgacatg atggtgaata caggagtga 5640
 aagtcgataa caggggcagg tacagagaca gtgacagcca gagcggatc tcaagaactc 5700
 tccaagtct ttctccttct ctgttcttat ttctttcttc cctctctttt ttctctgttt 5760
 tttttttttt tctttttctt ttcttttccc tgggtctttt ttcttttctt ttgcaaattgc 5820
 agattctttt gggtttccct tgactaagtg gaaatatggt tctattctca cgtcctttgt 5880
 ctctctggaa acagagttgg agaaagttcc gaacttgtaa atggttgcta gctatcttgg 5940
 tccaatctga gaaaacaact agaccatgga cgtagacgcc aatcctgcac aagtataacc 6000
 gaagacacga taccgcgcc tgaaatgtga gggtaccgca agtgtaatta tttcccctcc 6060
 aatggccaca actagcaaact aaacctgat ggtgcaaaga acgcaaggac gatatgccgc 6120
 ccgacggaca gggaaaagtc acacgcgctt ggtcctaaaa ggagcagatc aattcaagaa 6180
 gaggaaaata atcgaataag aagaagacga ggcaaaggaa tgaggtcaaa tcagggtata 6240
 gtgaacgagg atgagcgaca agggagaggt tgaattagcc gcggataaag gttcggaaaag 6300
 agataggt 6308

<210> 5920
 <211> 5818
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5920

accgaaaagg cagtcttcga gacttccgtc ggatttgtca tatagcagct ccgcgtccat 60
 ccccggcagc attgctgatg tagaagagga tacgggtgat gctcaacatg cccttcgcaa 120
 ggttttacia gacaagggcc gcataccaag atcgagaca atcgcaagct ttggctcccg 180
 gtcaaatcgc tccttcagc ctctggcaca gctacagtcg tcgcctccac gctttggtac 240
 ggagcgagag tcagatgctc gcgaagcgaa tacatctccc acgacagtga ctgaccccgga 300
 cctcgcaact ccttgacag accgatacag caatccaagt aatggcacca ggtgcatctg 360
 caattccatg gataacggtg gccatctaata gattcaatgg tacgattcat ccttccgacc 420
 ttatatcaag tactaactac tgtacagcga atcgtgcagc cactgggttg acaccaaattg 480

tgtcgggtcta gaacgggtcca acctcccttc tgtctacgtt tgcgttttct gtgcgcaaac 540
 cctactcgg aagaatcgag tccgcgttcc ggtcaatggg gttggccatg caccgacttc 600
 accactcgcc cataagtcgt atcgtctccg ataatcaaca tgtaccttta cgtagagat 660
 atgctttgac tcgcgtccac acccaaccac aaccctttcc tatgcattta taatgagtcg 720
 ttctgtccta aagagaggac cggttttcac tctctgcta ggtctccttt gttccatatg 780
 cagcatgtta gatctcatc cgttatcata ccaataccta taccataacc cttttctttg 840
 cggcatcata cagagacaaa catatgcacc acactttgtt tctttgttcg ctactaattg 900
 ttaacaatag tcggctaagg aggataggat agcatacctg tatctaagtc tgacagaatg 960
 aatcaattat aacaggacaa cccattttat ttactaaaga gattgcatat ttcattagag 1020
 cactgttggt taattggccc taaaacggct aactgacggc cgaaccatgt gattcaagat 1080
 gagtcacca tctgaaatga ctagccacta taaactcgta aactaaggat atatataccc 1140
 taagaaccgt ctaccctacc aatctcttcc cccagacctt acagcccagt tccgtacacg 1200
 agagctgcct cgacgaccca acaaccgact atcttaccta tccatttgac cacctaggca 1260
 aactatatgg catccacaac aatgtcccca aaagcaagat caacatccac cgattctagt 1320
 ttaaatttaa gctttcaaac cgcccgcta tcttcatgc gtctatgtct tgccgacacc 1380
 ctgcactcc acgaactccg caccgagccc gaggtcatga agtggactgt ccaaaaaatc 1440
 ccggacgcgg gtctccagca gacggagaat tggatcaggg ccacgatgac tacggacact 1500
 tacccttta catctagttc agatcgggag tatgcagagg aggggagtcc tgtaatggac 1560
 cagaccgaga ggcaaagcca aagcaatacc aaaagcagaa gcaaggagaa atggttctgc 1620
 ttcgcggtgc gggaacttgc gtacattcag tcgcttgaaa ataaggatga cccccggcaa 1680
 gaccgcatcg tcggtatagt cgggatcaaa gaagcggggg ctccaattac aaagagactc 1740
 caacacgagc tcgggtatat gtttgtccct cgggtttggg ggaaggggta tgcaagtgag 1800
 gcggtgaagg gtattgtgag gtggtggttc ggttatcttg attctctgaa tttttcaggg 1860
 ttagaggatt cgagggcgaa ggggtgggaag gaggatggag gggaagggtga ggctgtcgat 1920
 aacgaaaggg tttatgccat tatctcaaag aagaatgggg ctagtcggag agtgctggag 1980
 aagtgtgaat ttcaggtcgt tgggagaaga gaaaccgatg atgttgggag tggatgagg 2040
 gaggaactaa tagagtttta tatttccga gctgatgtga tgacggagag aacttgatat 2100

agaaccgacg gtgaaaaaaaa atcgtataga ggggtataaca aaaggggtata taaatatata 2160
 tacatgaaac ctgtctacag cagtcacgaa gaacaatcag tcagtaaaac gtcaagagga 2220
 gcatctacca tgatggctat gcagaagaag aagaccggta ccatatcgac gccgaaaagg 2280
 tgaatctgtc gtgcaagcct gatccacatc tgtaggtgat gcaaaatatc acgaaaggag 2340
 taaacatgcc catatccgta aatccaggca aaccctgtgc gatgtaatcg atagaatgac 2400
 catgtcaata tccatctccg taaaaataac catccttggc ctttgatgaa ttcagtggcc 2460
 aaactccaga gctaccagta gccgatatac ttgggcggct cgcggtgccc catacatatt 2520
 atcccaaaaa tgccatccta actcgaactg taccataca caatagagcg ccggtatccg 2580
 tgggtaccgg cgatatttcc aatgcaaaat aagaagaaaa gaaaacaaaa gctccgaaac 2640
 taacgccttt tcgatccgaa ttacgcctgg ccggagacgg actcaggcta gaatgctcaa 2700
 cgctgttgac cgttgttccg ctgctgcaac tgttgcccga ttcgcaaagc ttcagtcccg 2760
 tcatctgtaa tgggctcctt gaaccacggg tgtttcaggg catccttggc agtaatgcgt 2820
 tgttttgggt cataaacgaa gatgcgttgt aataggtcca ggaagagtcg gtagaacttg 2880
 gtattcgttg gcatgaacga ctgggatgat tagcaactgg cctaaaaatg ctttgtttga 2940
 gagaagacat acagtcagtc gacgcattgc ctgcacgtat ttctttgagg ctcgtgttgt 3000
 ctcttcattt gggtagtcaa gacggtttcg gacgaagtac ctggaaaatt agccgtgac 3060
 atgttgacga accgaaaaca cttacttggc cgctgattt tggttaaccat tccgcccacc 3120
 ttgcatcact tgacggacca gcttcgggtc tatccgtca ccaataacgg cttccatcat 3180
 agcgaggtgc tcgagattgt cgtgagtctg gaaaagagca tcgcccgtaa agaactcgac 3240
 aaggatgcag ccaatactcc aaatatcaca tgggaagctc cagccaagat tgagaatgat 3300
 ctcgggggct ctgtagtgtc gagtggaaac gacagaagaa tggattcat catcgaaggt 3360
 agcagagccg aagtcgatga ggcggatctc actgtcaagc aagacacgac tctgacgagc 3420
 attccgcgat attgcagtgg atgaggaagg aatagtgcga ttgtaagtaa aggtttggta 3480
 cgcgttcttg acaaggagaa tattttcagg ctttaaactc gtatgtatga gattgaggtc 3540
 gtgaaggact gtaccaagtt aactgaaatc cagaggaaac atgatgcgaa caacttacag 3600
 gccacgctgg tgaaaagctg ccgagcaaag ctctgaatct gactgcttgg gaacgggaca 3660
 aaccggttac ccttgaggaa atcaaagaca ctctgtccta ataagtctgt gacgatacat 3720

atatggtttc ggaaatcgaa gcagtctctt aagtgaatgc atttgtttcg gttgtgcttg 3780
 tcattggacg ccaaagtcga aagtaacggg agttcgatcc gtgatgcgtc acgatacttt 3840
 tggatggaac gtataatttt gatagcacag cgagctttgc gttgtttgtc atatgcttcg 3900
 acgaccttgc cgaatgttcc ttgccctaga agcttgatta tcgagtctga cgaggtttag 3960
 caattgacgac catacatttg cgatttagag ggtactcaca tcgatcagtg ataggggtat 4020
 tgggattgac aatgtaatga ccatcgatcat catcgatattt ttccccccta ttgcatact 4080
 gagccgacag ttagtgacat tcaattgcta gcaatgacaa tactcacgga acggacaacc 4140
 ggcacaggca catccttggc cttgataggt ggcttgggag gaggtatata actcaagaag 4200
 gcacggttg ccgtctcctg ctctaatttt ttttgttgat cccgcacaga ctttcgctc 4260
 gccacccgct ttcgtttctg gccgacgttg gcgtcttcat aataagcacc attgctcgca 4320
 ccggaactgc cctgtgaaag agatgtggga gcagtgggtg gcaacgatgc ggtgcggtct 4380
 gtggagaggg acccggcaga cgactcctcg ccgtaatgct gagggttcgt ggagaatgag 4440
 ggacgatcaa agtatcctag atcgatgag gtctcgatcc cggtgcgctg tctcttacct 4500
 gcaggatggg cagtattgcc attcgcgacc tgagcggtag atgcggtcgg gtaagtgcgc 4560
 gatgcggcgg cagactggtc aggaggaggt gtatcatcaa tcacaatgac ctcttttggg 4620
 ataccattct tgtaaaaact gccccagtct ggttttttcc gcctcccggt ctgggtcgaa 4680
 acccccgtac tagcgggttt cggaggctgt ggcattggctg cggtaactgt agcggtcgaa 4740
 gccgcggcgg ccgaatgagg ggactgggtg tatgggagtg cagctgttgt tgaaggaacg 4800
 gcgtaaggat agacagtcga gttcaggtgc ggagaagacg tggtcggata cgaagggttc 4860
 ggtaggtatg tttgatgatg gggaaatccg taatgctggt gatgatgct aacgggatgt 4920
 gtggcgggtg cagttgaggg tgtagacatg atggtttaga gaaaccgtcc ggtcgtacga 4980
 gcggcggatg gggggaggaa gaggaagggt accagtgaag gagagaaaga aagagaggag 5040
 gccgttcagc gtcactggta gtccgctgtc gccctcaatg aacacggagg cgtggacacg 5100
 ccaggccgat aaacccgggg gattctcgcg agaatcacag tctcgctgag taaagaactt 5160
 ggatagtgag ttgagtgaag cagctaaact gcgagaaggc agcaggaagg ttgagactcg 5220
 aaagatgtga cgagcaagga gcgagaaagt gagagaggcg tggggagtga tgcgaggcgg 5280
 tcggtcgggg caagaaagcg tgcgggtccgt ccggtaaaag ggctctacag gacaatttcg 5340

atccagttat tttttctttt gaggaatggt cgagggcatc ctgaagaata aaagaaaaca 5400
gacgacaact tctaattcag ggtctgtcag agtgggtggtt gaaagaattg ttcattcattt 5460
aatcttggat actaattgag ttgacgaggc gacgggatcc ctataccaga acagcagaag 5520
gcagagtcgt aatgctaggg tggctcggtt acgccttttg ggacagtcca ctcaaaagcc 5580
acggattgca ggggtgtttac agtcagcccg aaccagcctg tccaagaggg ctcagactct 5640
gtggaatgta tgatatattc tttcattttt aaatcatttc cttttctcat ggttttcggcc 5700
ggcaaacacc cgaaagtaac attatcaatg tcagaaatag gatgacacgc cgctaaatct 5760
tgtctccgtg acagtaggca atgttttcga ctacaattgg acctgcgaca agtgggaa 5818

<210> 5921
<211> 7495
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 5921

tcacttgttc agacgtcttc attgcgccac agcctgaacg atgcttgctc aaaagggccc 60
ccaaagacgg gaaagaaatg cgcttatgca aaccagctgc gcactctaac gtggcttagt 120
aaagccaatc tccagcccggt cgatcagacc cggttgacgc cagcggcccg cctaactctg 180
gcccttgccg atgcacgttg gttatcatct ttcattctgt aatgacagtt ctggactcgt 240
ccgtccgagg gcggaccggt actcaccttc ggggctgttc ggcggtgcc gatcaaagcg 300
gaggtgatgt cgagagcaga aaatggtgtc ttgatactgc agatgcggtc gcaattgaac 360
taccatctgc ggcagactgc gtgtcgcata tctaagtgcg actgccggct gcccgtttct 420
tcgactgtgc atccgccagc acgagggcac gagtcgcacc tatctaggaa ctcgaggaca 480
cggccttgga agtggccaat gctggctcag ctgtagtcgc acatgagata atcggttttt 540
ccaccggtct aaatataccc tggaatctta taggattggg ccaatcgcg tgcaccgctt 600
ggagtagcca atatggatcc tgctttcaag gaacaaataa caggcgagcg gggttatcct 660
agtcattcga agctagtctc ttttaaggcg aaggagagaa agaggcccag nccccacaga 720
gccatctgcg acagacaggc ccccggccaa caaaaacgag cactgcagaa gcgtggggat 780
cacagccacc tgggtggttac gcatgtttcg aactcgagt cagcttacgt gcgtaccatc 840

aggttgggtc tggaggggaag gtagtgcacg atgatgtcgc gcagtaccgg tacaagagct 900
 gtcgggtata aaacaaagtc aaaattgcat accttacttg gtccacggag accgacagag 960
 acggttcatg caagattgac gaagctggag ctgcacaccg aaagcgagag acgcagcaga 1020
 accaagccat tggggcccttt ggtcagccgg aatgtgaacg acaagcgggc ttgcttaagg 1080
 caggatataaa cctttgtcgt tgacgtcttc tctctaccga cctcgagaat caagtagaga 1140
 ctacatgcaa tcccggcttg cctaggccag gaggtgacat tccctgcgtt tcggactgag 1200
 cactcggcgt tgtacaaggc gcactattcc tggactgtct gctagagggc ccgagtagcc 1260
 gatattaaag caatagtaat atattgctca gcggagacgg gtttacagcg ctctcacagc 1320
 gagttaacag gtcagttaat cagtcagtca gctctttctc cggcagtcag tatgtatctg 1380
 ctgctgcgaa tcttcccaaa accagtcagc agaaatcgga gcatttgctg ttcaaccagc 1440
 agcagaccgt ctagcccgag tctcgagtcg cagcaaggag taaggggggc ccttgggtct 1500
 tgtcatcgag taacctcagc tccccctgca atctataata gggctctggg atctttgatt 1560
 cttcttggtg atcaagtagt gcaggctttg gtcaccttat tctgctacca ccagcaagac 1620
 atcctgagaa gtgagattag tttcggtcag cattggactc gctttcgtt tggtttcggt 1680
 ttgcttaatt cggtcatgtt caacgaaact cggctctcat ccgcctccgt ctagcaacat 1740
 gatatggagt gcagggcagg ttcagaggcc agaactctgc tctactaatt gaaaatttgt 1800
 ttccactcgt ccagcagcta atctacctgc cgagcagaaa ttacgagagc cagaactaac 1860
 ccccttctcg ttctagcagg ggagcaatgc tgccctgaag ctgcgcgttt tgcagagca 1920
 ctaaatacata tggtaatcat tatactaacg agaaatttat acatacgtat caaataaacg 1980
 ataaatctca ctttcagaag gcttaactat agtattgcaa tgattaataa gaattatatt 2040
 gatataataa taggtggctt atagctagac aagattattg ataaagatat agcctaacag 2100
 gataatgcct gcgctaggta atgttttttc cccagaatc atcggcaaga gtccccacta 2160
 cagcgtatat atcatttatt ctaccgaagc gtggtttaac atcatagata tgtgagtatt 2220
 catgagctta acaggcagcc gtttcctgaa gggatcggca cactggcct gacagcattg 2280
 ctggaggata caatccagca gcactgggtg ctttatacag gcctccctgg ttctcatgta 2340
 gtccttctag tacagatgga agacttctgt tgatcagtta ttggcgggat ctttacagta 2400
 tctttgaatt gcagatgggt gactctggca atattgtgca tagagcgcat acatgggaac 2460

tgatggcagc ctggacatag gaaggcgact cccatttcaa cttctatcac gaagcccat 2520
 tttggaactt gataggagtg cctcctttt gtctcttcac gccacatat taagtccaag 2580
 tcgtggatgg acagacctgc tcgtcaaacg atgtctatca gtgcggccag ttgatctctg 2640
 cgaaggcgac cctctgtctt ttgatcaaac ttaacttgac tatgcattgg ctttcgacat 2700
 cccagcttat attgctctc acgaacagtt tcagaggcag cttccgcac agccagagga 2760
 cgacatggtc aatacacagc tatcatcaga aagctttcgg atcattgaga tgcaaact 2820
 tgttaacctc cttgaacttt ctcatggacc cgcgtacac agtggcaacc ccgggacttg 2880
 taaagaattg gtacaagaaa ataccggccc attggctgct ccggagcaaa ctgagatagg 2940
 cgagcaaagt ttggtgcagc cagttcctga gtatcggacc attatggacc cttcagccag 3000
 tttatctcag gctcaggata ataatctcag cagagatgct ggaaattccg atattgaact 3060
 gggcagacag aatgatatgg aggagacgct tcgtcaagaa ctctagagaa agagaaggat 3120
 ctagggacta gtcacaaata cacctttgac actgtctcta aactaggcag tttctaccag 3180
 aattagggcc ggctgagtaa agccgaggcc atgtaccagc gagcacttgc aggctataac 3240
 acgacgctat cccaaaatca tctttctgtt ctaaaagcga agaataacct cggaagggtc 3300
 taccataacc aggggaagct ccaccaagcg ggggaattgc ttcaagaagc actgactggc 3360
 aagaccatga tccttgggtc tgccacatc tccacctca gaactctcaa caatctagga 3420
 tccctgttcc aagaccaggg caaactgccga gaagcagaga gacgttgaag caagcactgg 3480
 taggcaaagc ggtgcttctg ggctccgaca atccatccac tctcagagcc aagaacgac 3540
 tcatgaaatt ataccgtgac cagagtagga cggagaaggc aagagatctc ctcaatcagc 3600
 attgaatata ccgaaggcgg aggattaaaa accatgctag aaaggagacg ctgttatcaa 3660
 atgggataat gctgagttca tgcaacaaca gaggttagcc acgaattggg tgcttcttga 3720
 aagcaagtaa gtgagccctt ccagtcctat gcgtcccagg gaaacgggta caccaggcca 3780
 acaatttgat ggactaaatt tccctctggg gcattgccta tggaccctt ctgcctgata 3840
 ttaccatggt gacggactct caaagtattg tttaaataac ctttaatgcg gacagcttac 3900
 attaattaga gctactgac cttctcttg tagcgattcc tccaaacacc taaaagccc 3960
 attacttgc tctctccga tagccctagc cattatgtac tgttactgc tttctagttt 4020
 catctccttc ctcaagttac aggtggggca aagctccatg caaaagaaca tgttctcaga 4080

cccagcttta tatatatctg atctttctta aagaaccgta gaagcccgca agataatcag 4140
 ctgccagttc agagtggaaa gtttccgctg tgcgtcatca aaacaggcgc cagccaagcc 4200
 aaataaatga ggtgcagccc gtgggatcat gctctgatga aaagtatatt gcgttgcaac 4260
 ggcaatatct gcagttcgtc gcgtacctgt ggtggaaatt agtcaaggtc cggataaggc 4320
 actaaacagt ttttgtggta cgagtcttgc ccaggcgagc ctgatattga ttccatctgt 4380
 ggctcccatt ccgagttatg ctacctcatg cagtctccca gtgcgagata ttgctggctt 4440
 tacaagcaat cagcaaggca agtaggaaat acttaaagct gttcgggtggc acaggatgtc 4500
 ctccgaaata gatggactct tcgtgggtccg ggacatggga tgacgtacgc aatccatagt 4560
 ggtcaagcac cagctcgtcc cagctccaag aactcttatt tttctaccat gctgtcctcc 4620
 aacagtgaag tcagagtcac aagctactat gtctttgaca acattctcaa agtagcagca 4680
 atgtcctcaa ttcactctgc ggcagcctgt tgcactctat tgggactttg tgctgtctcc 4740
 tgccgagttt cttggatatg tgggcgacat cttctccgcg aaagtcaccg caaaattgac 4800
 tatctcacta cacaggatgt cgagagcaat actagggcag aggaggttcg tgaggacttt 4860
 ctgcgccgtg taagtatact cgcggaatac atcaaccatc ccaatgcgca aaacctgcat 4920
 gtttctcgga agcatactgc tgagtacgct atcaggccag aatacagagc tttagctatc 4980
 tgactactag aacgagatat caatatagcg caaggaatac gagtcgcttg tgcaagatta 5040
 atcagccacc ctatcgcttc gtagacagcc cattgacata ttgtgtataa agtaatccag 5100
 cggtcatatc ctgaaggatc cagtctgaat tggtaaactg acattacctc aagtatatgg 5160
 cgtggcatgg tcggttggat ctatagcaat tattaatcaa tgcacacgaa cggcgagag 5220
 acagtgattt atccctgggc ggagtaaagt ggctactgct ggtgatagcc agacacgaac 5280
 cctggagaaa ggtgaaaaga gcccagttat cgaaatgagg attgctaagg gtaacgaagg 5340
 ttcagacatg gatattgcag gcttttcagc cggagctata gaaacctaac taccagagaa 5400
 gctctaacgc tggctacaga cctcacgtt cagttcgtat gtcagaatct atctcttcta 5460
 tcatcccag acttttgtca agttatattg ggcattgctg gtcttatgtt gaggttagct 5520
 ggctaacgtc cgtaggcag ccagcgccgt taacaattcg taatctgtca gttgcgtttg 5580
 tttgaggtgt aattccagca gctagcttgt ccaaattcca tttttctttt ctggctcagc 5640
 ataatgtggg caattgtata cccgtcggtt tttccactc tgaccttcc gtcacaccg 5700

tacctcacc tgacccccac agaaaacggc gtgacgacac cgacgccata cgacctagca 5760
 ttccaacata tacctgtgca gttgggaggg tttttgcatg ctgcccttat ccgctgccgc 5820
 caccacaac cctttggagc tacgatagcg gtagcggtagg tcatgcttgc agtggccgaa 5880
 cactagcggt gtcatgccct tggccgtaga gaggagttat actaacaggg cattgtttgtg 5940
 gacacatcct gcacagcgcc cagcttcgtc gacttgtata tacctgttta gtcttttact 6000
 tctatgtgga taatccggat acgagtctca ctgtactctg agtacgcatt cgcttttcaa 6060
 gtacttgaca acagcagacg tctttcaatc agcaggcagt cgatgaatat tgtccttttag 6120
 gccccaccg gcaagatcct cctccaccgt cgtccgtcat cattccgaaa cgcactagca 6180
 taaccagca gcaacctcgg cactaccaga ttggaggaag acctgaacaa tggatttgtt 6240
 ttttatggct gcctattcac aggttggaac aatcatccgg tggccaaga aagaaaaaac 6300
 agtcctagt gcttttctag agggtttga atttgaccgt agcttctgcg gctacaagga 6360
 cagtgtggga agggctcctg tacatccatt ggccggcctt gctattagac ccggtgctca 6420
 agggagcgca agtctacatt tggcatagta ctctcgcta ctggttattc tcggccgacg 6480
 cggaacagca tttgttatac tagccaaggc gcagtatacg gagcagagga gcactgtgat 6540
 attagacggc gacaaccatc aatatatatt aattgcgtat taagtacgat ggactcccca 6600
 tcggctctaga tcccgctgtc attattactg acaaagtgtc aggatcgaat ctagaccagt 6660
 ctccgagctc gccataaata gtggatatag ggcagacgcc actatgggac catgtcatgg 6720
 ccgtgcccac gacttgacaa aactagcggc gaggctagct atgtggatag aggcctgaaa 6780
 tagcaccgtt tgtaataatt cagtatagag gaactggatt agtttgttat tgatatcgg 6840
 tttggtctcg gtccctgatt tgggtgtttct tgtcgaggga gcatgccaat atgcttactg 6900
 ctcttgggtt ctctttcttt ctcatcttat tttctgtatg tatggtttga atgacctgta 6960
 aacaccgggg tatactagcc aacggaaaca gcaatgcaaa ggaaatagaa taatacagct 7020
 cgcccagagt aagacagcea tccgcgtagt cccacgacct atattcgatc ctcgatcgtc 7080
 cttcttggcc caatagacga cgcgccatgg tcatccgtcc catcctccgt atgtacaatc 7140
 acttctgttg tctgcacgat ccgcgtattg atattgatgg ggcttttccg cctcgtcgcc 7200
 gtgctcgca ggttctcttc gctcccgcga tcagactcgg atattgacgg gtggtttgca 7260
 tggatctgga cgtggtattt ctgctcctcg ggatccattc gactttgaag catgctgccg 7320

agaacgtggc tgttcgggcc gtaataagcg ttgccggtcc ctgtcactcc ggtgcgtttc 7380
 cgccaacgcg atccgtaccc ggtcaggctg cagggtgccac cgataatgct cttgactaaa 7440
 ggcttgattg tggggaaacc aggcggcatg ataccgacgt tgaattccac tgaat 7495

<210> 5922
 <211> 5392
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5922

gaattgaggg tttggaagta gggtcagaca taactagtca aactcgagga gttgcggaga 60
 gaaaccaggt gtggttcacg aaataaggga tatacgtgag gttgaagtcg actcaatgga 120
 caagcagcac cggttaagat ccatgtgagg ttgatattca acctcggctc tctgtgttcg 180
 gttcggacgc taaggctctt gcattatgag tacatcagct gctatagcaa ctcaatagtt 240
 agtctccgtg gcgcaactgg ttagcgcgtc tgactgttag gagagatcct tggttatcag 300
 gaggttgaca gttcgagcct gtccggggac gataactttt cttttttctt aacagattct 360
 accggttgat aattctggaa ttctgtaac aaggctcgaga accgtagata tcgatcatgt 420
 cgaccgtag ttagttacct caagcaatta cggccattcc gcaaaccatc cggtagcatt 480
 ttctatgcaa ggcgtggttg tatggtttgc acgggacttg ttttatgccg gcaaccacg 540
 caaatatggt tgagcaatgc tttttccaca ctgaccccat caatacatgc agctcgtttt 600
 cggaagacta gcaatctgac cgttctgcat agagcaaaaa tacgtcctcg gacaggctcg 660
 aactgtcaac ctctgataa tcaaggatct ctctaacag tcagacgcgc taaccagttg 720
 cgccacgaag acggacattt taacatcgac atttttacta gtgtaccagt aatgaaactc 780
 tgtctgatac tttgtatgtg ataagcaatg tgatggctag ttagttaatt tcaactgtatg 840
 agctcatagt tggcgtgcag tatataggag attatgccg cctgtctata gctttaggta 900
 aatgggtatc aagccctaac aaactctacc aaaggcttat gctccataaa gcctcgcccc 960
 ggtgtcagcc acttggaata tatagtgcgt atatggtctg atttgggctg gtgagcttca 1020
 gcatgtgcgc ttattgtacc acgacagtcc gcgataccag aggcagtccc caggcttccg 1080
 cttggacggt gtggggcccta tcgaacgcca gttgatccaa ctccgggatg attctgtaac 1140
 ttcgaatgga gggcaaagtt atcgcttgac gcagcggggc tagagtctgg atatcagaat 1200

gcgagtgcct tgcaaggctg aaacagcctg gaaatcaata cgtatggcag agtcccgtgt 1260
 tctaaccaac acagaagtcc aagcctgaaa tgcgagcttt agttcgactg gccgcagggc 1320
 tatgataaat tgggtcaattg gcacatgaac ccgcctttga tgtggtcctt ttatctttca 1380
 tagatgattt atataccttt cgtgcgaccg cctgctcagc attgtctggc tcatacaatg 1440
 ctatatgttg catataggag acacctacga acaagccata aaaaggaaag catgccaccg 1500
 tcaaatgcaa cgcaaaacag ccaaccgggc aaacttgcaa gccccgtcaa acattaccac 1560
 gagagacgca gctcattcgc tgtaggaatc tggattcttt ctatcctagt tctcggcctg 1620
 gctgctgcag tggttgcgaa agctcctgct agccctctgc gatcttcagc ttcctacaat 1680
 gtcgcagtgg tatgtcctca ttcacgcac cgtgctaacc acccgatgtt attatatccg 1740
 cgcaatgctg aaatatagca ggcacgcctc caatttttcc tcttcttctt cgccggctca 1800
 aagccggtat cgacaaccga tgcacggcca cccaaggcag ggactatcac gctagtgatt 1860
 tccacactca tctggggccgc cgcttcccc atcatgttca tcttcgctag cgaggatgat 1920
 cgctatgcgg tgggtggattt ccacgaacat gttctggctc tagatatagg tacgggcggt 1980
 gtcagtggac tggagaacat taccttggca tgcggagctt ttggagcttc gatattgtag 2040
 gttattccca cggtatatcg tgatatcggc atgtcgggat cccagtgagg agtgtactga 2100
 cataacgact ctacagcttat gtatcatatt tcagtgggat tatactgccc agctataccg 2160
 aggccacttc actcgcgacc atattgaagc ggcgtataac gactaggcga gaagaacaaa 2220
 agctgttgag cagttctcaa actagaactg gacaagacaa gtgccaatg tctagtctag 2280
 tgggttgctg attcacctcg ctggctcctg gcctgcactt tttaccggt gagagacata 2340
 cgacaactaa tcagaatcct caaaacaagg gccgtcaat ttgtagaaga cgcaaaaaag 2400
 ctacctgcgc agcgattgcg catcagacat aaccaagta tgtcactg agcgtaaccg 2460
 tccggccgta gtattgttct tatgtcaaac accatcctct tcaacctagc acagagccct 2520
 cattccacaa gctagtattc catcaaattc atctatttcc ggtgaatgcg atcatcagca 2580
 tccctaagta acgcaccact ggaagacgta gagatttaaa ccccttctt gaccatgcca 2640
 ttaccaccct tccagagtgg gaagacaggt taaatccata ctatactagt aacgattggg 2700
 taacgcccgc gacatcccca aggccagtac ttgggttctt acgcgtacct gccttgtctt 2760
 gacggaagtt acatcagact ataccctgcc ccctctgagt caggtcttga ttggcaaata 2820

tatgtgatga ctggaagacc tatatatata cttgceggact cctcatccaa ggaaaaaagt 2880
 cccaccaact tgctcgacga gaatcctcaa atgcagggaa taataaacgt ccccgacag 2940
 gctcgaactg tcaacctcct gatacccgaa gttattactt cttaacagtc agacgcgcta 3000
 accagttgcy ccacggagac gaatcgtaa aagcaataaa tgttgccctaa cctatgtttc 3060
 ttaccaaadc tgtcttctga taaaacagca attgccacag gacatacccg tggtttcatc 3120
 agacagccac cgatggcttg gttttgtgta aacttcggct cgatccttac ttgcagccgc 3180
 tcatgcatgt atagagcgtg tattctctcc ttagggagag gaccggcacc tctcttcaaa 3240
 aaaatatgac cgcttttagct aagttgagtt ttcttatagg gaaaaaaga aaaccgtcct 3300
 cggacaggct cgaactgtca acctcctgat gactaaggac tggatttgac ttttcaaatc 3360
 tagcttccta acagtcagac gcgctaacca gttgcgccac gaagaccgct tattgggtgt 3420
 cggcgggaagc gaatatctat ataaatcttg atgctttttt gtttccaaat ctttctctct 3480
 gatatacgga tgatggcccc cgaaggatgt gccgtcaagt cagcagtttg gtagtaacat 3540
 aggtgggata tgaatgtttt gacctatcg tggatggga tgagtgtagc tgaaaccac 3600
 tggaagtctg ggcttcttcc gtgaagcagc cctccttga tactactatt ccttaggcta 3660
 tatagaaatt tatatTTTTg ctcaatctaa tacggtgaac gtcacctgtc atggttcacg 3720
 caccaatcat caatTTTgta accactaacc tccgccaact gccatccac cgctagtata 3780
 cccatccacc tcatatggaa ggcaagtga gttccaacca ttcgtacca atgcaaaaag 3840
 cccaactta ggtcagtcgc cagcactata accaacaaaa gtcccaggcc ccaactggctg 3900
 ccctgtggta ggtgtctgat ccctgtggta gacatctata ttgttttcaa gcaaattaaa 3960
 acagtagccc gtgccgtttt atccagggcg agaccattta cctgccgcat cgagccgaca 4020
 aaaaccatac aatagccgca tgtacgcagc aaacacaacc ctcgatggtc tgcactacgc 4080
 cacagaagac aaacggcaaa cacacagcct attgcactac cgagtgaag tatgaatcct 4140
 tcgctggccg caggcagcca catggactcg agcaagaaag caccatcaac catggcacca 4200
 gagaccctcg accatagagc gcacctcaaa ctgacgcccc aagtggctcc taaacgctgc 4260
 gcttctccca agcctccata ttccccgatt tagttgttat ggcgcgacct ggtccatgac 4320
 cggaaggatt gttgccattg tctttgccat gacaagcacg agaaagtgtg cctgcaagaa 4380
 gatgcccac gcgaaaccgc tcgcacgccg gtttaagagg cttcactcac cctagcagaa 4440

ttctgccata cactctcttg cccggggaag cttgggtggc ttctactag ggaaagagt 4500
 atccagatgt acgccaacac accgtatctg ctcagcatag aaccaatca tccatgagcc 4560
 ctctcctaga ttgattaca ccgacgaaac ctctgggggc ggaggacaat tgaatagcca 4620
 gccgagcctg gaagtaccgt atctgttata gaggaatggc ggcaatattg tcgcattagc 4680
 acgctgcgcc tgccaggatg ctacctctcc cctatggcac gagtagtgta aaagcccaac 4740
 tgggaacaag aggatgctgg tgtagtcaa ttcaaggata tagcaccatg gtcatggtga 4800
 gcctactcac agaggtgagc atcttttctg tcgctgggta aagtcatggt cgtagcaggt 4860
 aaagcgctgt cggcgaattc ccaacaattc ataccgagtt cgtctcgctt cctcctttct 4920
 cggtcacaca ggctttccgt ggctccaaa ccacaaaata tcccacaaac tccataccat 4980
 caattatggc tctataaaaa actgacttctg aggctacgca tgcgataccg caataggacc 5040
 aacttccac caaggtatgc accccaccca tcttgtctt actgagtctg ttatcctaca 5100
 aacaatgctg ccatagaaca ctaaagctca aagcagccca taacagaaaa gagagagact 5160
 gtcagctcca gaatatccgc tccaaacgat aacagaatct caaatacctc accccagcct 5220
 tcaagttcca cccaggtcta aaaaaaccac tcattaccac cacttattga cctttaagct 5280
 gagatttacg agagacgcca gacggcttcc aagataaaac aagggaacga tgcggagaga 5340
 actgttcacg taaggctctg cctacagagt acagtttacc caagtccccg gg 5392

<210> 5923
 <211> 9840
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5923
 cgtcatttga gattagcatc gttatgacac ctactggccg taagttagtc ttgcataga 60
 cgttatttat gaacatagta ctgaagaat acaggaaatt caggtctttt atgacgcgct 120
 tgcaggaata ttctgtctaa ataaaatgat actttgccac gctttgtctc tagataggag 180
 tgcccgccgt ccaaactcat gttttcgtga tattcttccc aaagacagaa aagccacaaa 240
 cgagctgtcc aacttgtcat catctcagcc gttaagtatg tacgatgggtg acatccggaa 300
 gcttgagcgc atttactgct gtcctgagcg gaggaagcgc atcgaggacg gtgactttgc 360
 tatggattca cagtaggata cgtggagcgt ctgctgtgaa gagggctttt ggattggcga 420

atgctatggg caggaccata tataacagtg tcgttgggtc tcagctactg ggcggtggct 480
gaagttatat ggatgaacag caaccgcat aataaggatt gttgtgagaa cttatgctct 540
agtagtctat gatcatgctg gtgttcttgg agtatcctcc tcccttttgc ataaaacgga 600
aacaagatc catggaatgt cattctaata cagcagactc aggcaggcag agcttggctt 660
gcagcagact gccgtctgct gcctgcactg cgctggatc ttctgctctc atgcctaccc 720
ccactcttct aacctcgccg agcttcagct cccccgagca ctaaagggcg cgaacctagt 780
actctactcc gtcttcaaata cctcaacct cgacgtcgaa gtccttccca tctagagaag 840
gatggactga actgcgacga aaatccccag ctgggtatca caggcagagt ccctcacaat 900
gaataggaca gccaaggacg cggatatcac cggcgtcacc gtttttatat ggaagaatac 960
gagtatggcc atgaaggggc gctccagaag tttctcgaga acggccgaaa acctcaaccg 1020
acctacgtgg aacttctacc gccagcgtca gctgctgagc atgcagatct ggaccgacgc 1080
tggaagctcc tcatgctgtc gcgtcgctg agcggcatgc aagacctctt ggaatccacc 1140
gcgggcgcga atctagccat caaggaggat agattgctta agcggacggg tgcccagggt 1200
ggaatatcac gtcatactta cgggatatct gattgctgatt ctgaagatgg cattgacagg 1260
gtacactcta tcaagtcttg cagtcggact tcttttcaaa tatatatgca actaacttgt 1320
cctcttagtt taccctaaact atctggcccg tgcactatct ccctaataatc acctggataa 1380
cggagccaaa gcatgagaaa atggcattta gttagattgc gtacgggaat gaggcctcta 1440
ttggcacgag gtactcatgt gcggccatac ttgctgtggt tccgccggct gggcaaagga 1500
ttgggactat tcgcgagAAC tatcccttgt tggtttgctt caggctggtg gaatgggact 1560
gattgttatc taggggaata acacaagcaa ggtggtgggg tcctgggctt tttagacaca 1620
agaggcctgt catcttgctt ggaatgcaag ctatagtaaa gttgctcctg ctgatgcctg 1680
aggccggaat cgccaccaca acaatgacga aatatacct ctagttcatt ttcggctatg 1740
tcccgcttcg aataaccagt actacacaat gcatccatga tctagctaga tcatagatct 1800
ttggcatgtt agaaaaaaaa aagtaagaaa caacgaaaac tagtgagatc gtatatttat 1860
atcttcgctg gacctgcaaa ttctgctgca tatacgtgaa acaaattaca ctagttaggc 1920
tctacttaga tgggtggctt attagttgga ctccaacaag tttccatggt ctagtgggta 1980
ggacggcggt ctcatactat gtatgacagc tcctatctaa aggagttgga aatccgcaag 2040

cacgagttcg attctcgttg gaagcacttc aatttttttt cctatctttc attccctttc 2100
 ggttggtcgt gcgtggaatg gtggtggggt ggtggtggag cgggtgggga tgccatggca 2160
 aagggtgcta atgaaccaca tagtggcaga atagggctgc atgaatattt atatgagtcg 2220
 aatgtctaag tttatctatt aggaggggta aacgtgctag tcaactggat ctttatagta 2280
 ctcagccata cacgtacctt ccaagggttc gacattagta tgccagtatg ctttatggtc 2340
 atataagagc gacagtatca tgctggcgga cacagcgtat tatgtgtaag gggacttttc 2400
 atgtcatgtc cctagaagtg ggcgcctaat agatgatata tgctggcatt ggcaatgctt 2460
 aatttacttc cctgggttta tggctttact agaaggata catctttcac cgtttctacc 2520
 aggagctcat gaacgattat agtagagtcc tgtatgaatg catacaagtt caaatggcaa 2580
 atgccatccg gtctcccaaa acagggtatc attgcaggaa gccaaagtcc gtcaatacta 2640
 cagtctatag tacaatacag tagccatcca aaaacggaaa tattgtatac aaaagagtag 2700
 aaaggagtaa atcgtaacct cgtaacgtgt tatttatgcc gccgttggct cgggactggt 2760
 gtgtccttcc ttatcgacca caatactgcc gtcttctga ctacggccgt acttcgacat 2820
 tggaccgtac ttgtcgtcgt gcttctggga catgaagagg acgattgtac taaaaaaaaag 2880
 tatcagtcac ataccgcgt ggcagcgaga atttaaagga atagatatac ctaataacgc 2940
 aaaataccca cccaggccag gcaagaacaa cagcggcaat tactttgggg ttatctcggt 3000
 atgctggtct gcgtcagaat atggcaggaa gggcacgggc atgataacgc actgtaagag 3060
 ggtttcttcg agaactccaa tctatacgtc tgcgcagtgt cgcgatctgt tctgtaacg 3120
 acggcatcat gtagagcgcc gatacactaa gaattgcggt gattatcagt accatcgcg 3180
 gcggtagatc aataattaaa caacggctca ccgtgatagt cagcgccgag ctcagcatca 3240
 taacagtaac gactactgcc gaaatcttcc aactgattcg tacatgtttg cactcgtgcc 3300
 tctccggcca gaagaggta aaaaagaacg ctgcacaaa tataaacgcc tatgcaaccc 3360
 ccacaaagat cgttggacga gaactcgcca atataagttg ttgttggtga atttttacac 3420
 ccgggtgctg agcctgaacg tagcttggtt gatcgaggta gtctgcacga aagcgcccag 3480
 agaagtcagg actgtctagg caaagcgatt gtggaaagga taggtgtttg cggagagaaa 3540
 cctgtacctg ataaagcatc cgtcccgaact gattctgagc agacgcatag gatcattgca 3600
 agctgataga caaccatctt tgttcgacgg agatggtacg cccggatgag catgttgcca 3660

gaactaatct tgctgaacaa atcccatgga aatcggggccc cagatgacgt catcttggcc 3720
 ggtcaaagaa tatgggatgt actgaaaagc cggagacgag tgaaaggaga gatgaggaga 3780
 agattggttg aatagatcta taagagaggt gatggaggcg ataaaggcga tggagacggt 3840
 catcatatag aagtacaaat aggggaccga cgtccagcgt ttggactcag catgacggat 3900
 ggacaactga tagcgacgta gtagtgcaga aaagaggggg cttgcactgt gatttggcaa 3960
 aaaaaaggaa ccatgatgaa ttcgtcccag ggattctgct cagggcaact gttttgcaag 4020
 atctgagatg aggtcatggt gggtaatccc ggtgatgtca tcgcgtaagg agtatagaat 4080
 acgagacgat caacaacgga tgtatcatca ccatcttaaa tttagtgtct tacagggact 4140
 catgatattg cagagaatgc cgatattggg tgggatagct ctgcttaaat aaagtggatga 4200
 ctatagcgac tggcacaaca gcagatatta tacctaccg gttgggacgac agtggatata 4260
 tgggcagatc tccagagctt tcaagctcat gccaaagctc ttaccacgag gcttcaatga 4320
 ttggacgcca tcatectcta tttcatacgg tgaagtcact gccagccat cgccagctta 4380
 gctaactgct cccaactaga ccagatcaga gctctccctt caacgccgca acaaccgcat 4440
 cgccaaactc tctagttccc gtcgaacctc caagatcaga tgttcgaatt cccttatcga 4500
 gaacagtgcg tactgcagcc tcaatctgcc gcgcctcggc ctccatgttg aacgagtacc 4560
 ggaacatcag cgcaacgcag aggatcatcg ctgtcgggtt ggcgatgttc ttaccggcaa 4620
 ttctatcata cattatggtg agcaacgagt gaagggatag tagtgggttg ggaatgacct 4680
 acgtcggggc agacccatgc gtcgggtcat agagcccatg taccttcctc tgctctcccg 4740
 gcttgggtaa accatccaag ctgcgctag gcaggacacc cagcgttccg accagagagc 4800
 ctgcctggtc ggataccata tcgcaaagg tattgtccgc caagatgacg ccgttcagag 4860
 cgcgcggtt cgtggccatg attaaggacg ccgaatcagc aagctggtgg acaagcttca 4920
 cctgcgggta ttctcgctc atggtctttt cgacaacccg gcgccagaga cgcgacgagg 4980
 ccagcacgtt ggctttgtcg agagagatca caggccaggg aggatcgtgt cgcagcgca 5040
 gctccgccga gagttcaagt aatccgctgt ttttcgaagg ctgagtagcc ccattcgtcc 5100
 attgcggtat tcatcaatat ataaaccact caagtcaccg taagtatagg taagaacgaa 5160
 ccataatggt cttcttcacc cttcttcca aagtatgcgc ctccacaatt ttccctcacg 5220
 accacgaagt cgacccctc tataacatcc tgctgaagg ggctgaagtc tctggcgatc 5280

tccctgcttg ggctatcaac ggaacacggt ctacagatttg cataaatgtc catagccttc 5340
 cgtacctgga gcagccctcc ctccgggtccg tcgagtcgcg gtcgggatatg gtcccacttt 5400
 gggcctccaa cggcagcgaa gaggactgca tcagaggata cggcagcatc gaggacagcc 5460
 tgcgtcacccg atttgccgtg ggtgtcgatg ctacagccac cgataagttc cgtctgggtc 5520
 ctgaatctga cgggtggatgt gttgaaaagg gagaggatct tgggtggcttc ggccataact 5580
 tcaggcccaa tcccgtcgcc ggggaggacg aggatgttgt atgacttctc tgacatgatg 5640
 tttctagagc taccgtgtag ggggtactggc agaaagtgac ttgagacttg agacgaacga 5700
 caatccgtat ctttatacaa caggccggag tcggagagta ggccgaaatg cggggaagta 5760
 caccacgga ttatccccga tategctatc tcggtcgtat tccctatgtt ctctacctcc 5820
 ataggctctc aggtccaggt cacggataaa tactgatctg agtcttcgga gaacagcggg 5880
 gtggcatata gtcttgatgg aaggctcatg gcaaagtaat gcaagcgtgt gctgggtcaag 5940
 ctggtaaaac tggcaggaga ttttggaaca agggcaagat tgcacaatat ttatggctag 6000
 attttacata aacagtgaac tgaatccatg tatgtctctt atgtcattgg acatgccaat 6060
 agggatgtcg agaatgaaaa aggaaataaa tgacaaggac gagattcgat cccgagttag 6120
 ttaggtagcc ttaatataca ggcttcaata tgcctctaac ttaagttacc acgactctcc 6180
 tagatggaga gatgattttg tctcttttct ctgtccaatt cacgctcacc actactactc 6240
 cgataattct gaagaaaaaa ccatctaagg gtcagtcggg gacgacttcc gccaacagct 6300
 agaggttgta agatatacca acgtcctgct gagaatttaa tgtgactatg tgaaccacca 6360
 tgtcccttca accagcgtaa tgcgcttatt gcagaccgtc atcctgtgct gttgtcaata 6420
 agtttcctac gcggagaatc tgcagctgtc aatcgcaacg tctaactgca gtgcttaaca 6480
 tggtagcgca catcccactt gaagcgaaaag cgggctggcc tgggcatgga cgccacctac 6540
 gtaccaacta gtctccaatg agtcttgctc cgtctccaaa ccaagaaatc acgcgccccat 6600
 cacacttccc ttgggtcccg acttggccag gcacgggccc cgaaagcttg gtgacaccgc 6660
 gataccatcc caacactcgg cgagccgatg aaaccgggtt gagctggatg catactcatg 6720
 ctacctagct agccggttga tgttggttgt cctgggtggg gcatcccctg ctctatttag 6780
 aatacggcgt taaagctgag aaggctttgt ggtggtggtg gtgatgatga tgatgatgat 6840
 gatgatgatg atgatgatga tgatgatgat gatgatgatg atgatgatga tgatgatgat 6900

gatgatgatg atgatgtaac ttgccttacc actcttcttg aagtctaaca gagtaggata 6960
 gcaacgtagt tgaccgggtg atcggagtta gcagcgggtg gccggccaag cagcgaaaag 7020
 ttttcgggtg agttccctag cccccgggcc acagccaggt tgtcgccatc gcttcaacct 7080
 ccagcctctt cccgcggtct tcaatttctt ttctcccatc ctacgcaagg cctctcaact 7140
 gcctacgctc aattcgtctc cactcttctc tttctcatcc ctcgtttctg ttttctcttt 7200
 tcttctctct ctcttggtg tcacccatca catatcacat acatccttca caatggccgc 7260
 taagatcgat gctcccgtg ctgcccctgc tcccagctg tctgggcttc agctctatc 7320
 cagattcgcc ttcgctggtg ctgtctgtg ctccatcacc cacggtgctc tactcctgt 7380
 cgatgtgtaa gtcgctctca ttgcgtatc tgtcacaatt ttgcgaacgc gcgcctttcc 7440
 ggtcgatccg ccgcctatat tgaattgtgc gctgacatgc tgcttcttcg cgccctacag 7500
 cgtcaagacc agaattccagc ttgaccccggt cacatacaac cgtgggatga tcgggtggctt 7560
 ccgccaggtc attgccaacg aggggtgctg cgctctcctt accggtttcg gtcccaccgc 7620
 tgccggttac ttctccagc gtgctttcaa gttcggcgggt tacgagttct tcaagcagca 7680
 gtggattaac cagctcggtt acgagtctgc ctccaagaac cgcactgcca tctacctcgc 7740
 ctcttccgct accgctgaat tcttcgccga cattgcctc tgccctctgg aagctactcg 7800
 tatccgtctt gtctctcagc ctgagttcgc cagcggctctt ttgagcgggt tctccaagat 7860
 cctcaagaac gaggggtgctg gtgctttcta ctctggtttc ggtcccatcc tcttcaagca 7920
 gtaagtaccc gagcagcgca gtagtaactt tggcctctgc taactcaaat tctccaggggt 7980
 cccctacacc atggccaagt tcgtcgcttt cgagaagttc tctgaggcta tctacggcgt 8040
 tgtcgacaag aacacctct ctgatgggtg caagactgtt gtcaaccttg gttctggtct 8100
 ccttgctggt ttgcgcgtg ccacgtctc ccagcccgtg gacaccatgc tgagcaagat 8160
 caacaagacc cagggctctc ctggtgaggg taccaccacc cgcctcatca agatcgccaa 8220
 ggaacttgggt ctcaagggtt ccttctctgg tatcggtgct cgtctcttca tggtaagaac 8280
 gattccataa aatgcgcgtc ttattctgct aacacgattc ccagattggt accatcactg 8340
 ccggtcagtt tgccatctac ggagacatca agcgtttgct cggtgccacc ggtggtgttg 8400
 agattgctcc ctccaaatag acgtgagtg gattgtgatt gttttggtgt attatatcgc 8460
 gcactagatt tgccttatac attgttctag tagatttttc actgaaaagt ctttttaacg 8520

accattctat tttagaatat attactttgc cagatgactt cgtctctcaa gatccaagta 8580
 tcaccaattc tccaatggta taatttatat tattcttaag tttcgggcca agaaataagg 8640
 aaccagactc tgcattgctta atcgctcgag ttcgtaagat ttgtgtgggt tatattataa 8700
 tattgcttac cggcattggg ggattaaaaa tgactgaatg ctgccttggc aagggtcttc 8760
 cagtgaccag ccaagacgca tagaaaagtc caaatactaa gatagcttcg gcctgcaaca 8820
 accatagaat tgcaagtgag ggaggaacac ataccggcgg agcaggtgac tacaccttac 8880
 acattgtcag cacgagaaat ttggcagacg ccgaaatata aacagccgca ttttctgagc 8940
 aaggacagtt tccttttacc ttatcatcct atcatgactg atggcatgta agcttgctca 9000
 acatattatt gcatatacaa attcctgggt tggcgaatag agttgccaa cagtgagtga 9060
 ctttgggaagc tcaatatccc ggagaaggtc gaggagcgcc aacagcgaaa ggacgacgta 9120
 acggatatat gtactggcag cattcaaatt tgccacagga ataatgagta tctgtgagtc 9180
 gtgaatttta tgtgctaaag atacagagat gtttttgttt atgtccgaac gtgtagattt 9240
 gacgtttgtg ctttgttgac cgattctgct gcagacgggg aagtaaaaga gccagtttga 9300
 gtttggccat caatgccata ttatggtaga tgccgtattg gaagcctttc aagaatggga 9360
 taatccaact ggtggaaaga actcacgtgt ctccagaacg agaagtactt aggtgtaagt 9420
 cagtcattgag ccctaatac ctctaggggt cactctccga ctgtggggta actgtctctc 9480
 atctgatggt tcttccatca ttgtgctatt ctcgagatcg agaaaagcta caaactgagg 9540
 cgttcgattc ttgataacag atgtatcacg agccttgggt aaggaagggg gtgtcaccgt 9600
 catacgagga gctcgtcgcc ccagagggaa tattgcacgc agcttggacg cttggaaatg 9660
 ctacttggtc gtctcctcat ctttaaatac acctgcttcg ttgtattatt ttagtttcgc 9720
 tattggaagt ttgacagcc ttcgaaagac cctgaaacat accatgaaga ctggaaggca 9780
 gggaacaatc cgctgcctc tttcaatctg tgccagtact atcaagcata aggaagcaag 9840

<210> 5924
 <211> 12794
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5924

gattttatcc atcatataag ctccagaatg ccaccattt atctgggcgg gctcccaatc 60

ctctttccat attaaagacc ccataggcaa agtgaatddd tttcgtcaaa ttttctttca	120
gcacgggggtt agaacgccag cttcccatgt gcaaaagcca aacaatcgac tcttgctcgag	180
acatacgcac cctttttatc ttacctagat gtcttccggc ggtctccgag acggaaagtt	240
tgggcatctc ctgagttgag atgattgttc tcgtcccata tgcagtgcgt cgagactacg	300
aagtgggtgc ccttgcggtg ccgggtgtgt gctaaaaggt tcaggtcagc catcgcgccg	360
gtgcaatgtc gccatgcttt tgccgctatg cttgcccgaa gcaattggat tagtagccat	420
aatttccatg caaatagtcg catgcttcca agataggagt aagcccgtt gcacttatca	480
ggaattctac tggtctcttc ttgccgtctt ggtcgtcatg tagatcaatg tgaatcaatt	540
gtcagccgca tggaatggtc tgtacaattg atcgcagttg gcccaaaggt cgaaatcagt	600
ctcgggaatg agatcagttt ccctttcaat tttagacaga atcctcagca agtacgtgaa	660
gatttgacc tagccactg tcgtcagcaa tctacaatag aacaccggca gagtgtgatc	720
acctcggctg agtctagcga tgcagccgtt ggatgggatt tgagtagaga gcgcatgggc	780
cttgcatgc tttgtactat ctctcagac cttacgaaat ccgctttccg gtgtaaggct	840
gcaaagcttc aataagctgc aggttttatt tcgtacaaat ataaggattg tttccgatct	900
gccgagcttg gatttgccca gaggtgttga ctaagaatgt cgtgatgagg gcgaaggaac	960
tcaactaact cttgatatgc acctgttcc acaaacatat ccgcgtactc gatagtgacc	1020
aagacactat ccgcgtagtc tcgtaagctc tctcaaaat accgggcggc tacacggcag	1080
tctcctaacc tctttaggcg tgagaactcc tccagtaagg caccgaggtc atcagtaatg	1140
tccatcggtg tctggattaa aaacagtctg agcagtgagg gcttcaggca ggatcccttt	1200
tcgttgtagc tccttgactt gctgaggag tatgccttg acccggttg aagcggctcc	1260
gcgttcgctt cgactgcgtg tatattcctg actgacagca ttcgatctca ccgggttgag	1320
gaggttcta tcggacgccg aatctgtggc atcatcacga ctgagcagct cgtccagcgc	1380
ttctatttgt ctgcggcggg cgaccattct gctttttcta aactaccgtg gtatttcaaa	1440
cccgaatctg agaaacagta ctgaacaaa cggcctgcga gatggcgaag gaattgaaga	1500
ataaaataaa acgctagtat gtcgtgagag gggttataag agcacccaat gtgcggcttc	1560
gtggaagcga tccgtccgct tgcaaacgcc ccggtaaatt tggcacgaca tgctcagcct	1620
cgcagtgacc tagagggaca atctctccac tgccagcctc tgctcgcgca atgtaggaaa	1680

ggtacgagcg gactgccgcc tgcaggtctc gaagtcacaa tggggaacac tcggtgtccg 1740
 tgaatatacct gcagcaatca ttacatgga cattgcaatc gaccagccaa cgaactgtca 1800
 gctggagagc gcgaggggtgc taattacatt ggatgatccc gccgagacga gaaccagacg 1860
 agagggagga aaaccgcttc agatgacgga ctactacgga ccaaaacagc tcagcagaga 1920
 agtgactaaa gtcaccgtcg ctgcagtggt acatttagtg ccacaggtca acgtaatggg 1980
 cagtggcgga ggcggcatcg gcgtagaaaa ggagcgatca gccagttacc taaccgatg 2040
 gtcatttact agtggcctcc taacacgga gcaattgagt caatgttacc gcactctgaa 2100
 gtgggagtga cgtgagaata aatcaggccg gtcgaatcg aaccccgta tccacactgc 2160
 attcgttcta caacacagta atcggccttt tataatgcga attgagatac aaggacgcct 2220
 gcaaaccgga aaagatcgca ttcgccacaa gatgcgccac atgcggtttc tgaatccaaa 2280
 tcaccctgag caggggagaa gctacacttt ggtttatcca aatagtgtcg ctgaacgaca 2340
 ccgtccgctt gatatgctcg ccacggcct atcgagtgcg atggaacgtg agcaccattt 2400
 gaatgtacc gtcgagatac cagatgtact gccagtttct ttcgctgtca agacagatgg 2460
 cgcgacgagc acgtcgcagc caaatgcacc gctgttccct caaagaactc caggtctcca 2520
 cttgcgggtgc cagccacaac caagagacat tgctccggac tcaactcctg caaaattact 2580
 ctcccagacg atgcggttac tgtttcaggc agccgacgcg ggctgtcaat ctgcaattct 2640
 tctgcgccag cagaccttgg ttggtacccc tagggattga ggcagccatc tgcctcgcga 2700
 gctgcgctct ctgatgctaa tgccaacagg agccaagcct ccgacatctg acgccaggat 2760
 gtgactctac aggtgaatga cataaaaaaa tggcagaaat gactacattc tcgagtggca 2820
 tgcactctggc taatacatga caaggaatat gacgggacat caaagaaatg aggatcttct 2880
 gcatccaacc gtttcataaa gtctgatagc aaagggttgg caccctatac taccggctga 2940
 acattgaatc aagatctcca gagttctttg aagtgggtgac accaaagggc acttgaattt 3000
 aattagaaca aaggcatagc acattgaatg caaaataaac tcctagcaac atgcttccag 3060
 cctcgattgc tgtataagta ctctgtaatg tggcatcatg tattgtgatt ataacgtttc 3120
 tcataaatta actaactgca ttctaagtct tattgcggca caacaaccac gactacaaaa 3180
 tgcgatttct tacattcact gttttgttgg ctatttcttc gctagtagca tctgcgggtc 3240
 gtatattata ctcccttctc tgcgaataac aaatttcgga ctaattattt agcaggtctc 3300

cactgacaaa catgatagcg aaggccacag caagggctac aggcacattc aggatgctag 3360
cacaggacgg attaatcaca ccgtcagccc cgctccaac cctcacatcg aacctcgaga 3420
aaatcacgac atcaagtgtg acctcggcag ctctggcaac aggatcggca gtcaaaagaa 3480
cctcaagaaa gccatgaagt ggctccggaa gaagcgaacc aaggaagttg tccaagtct 3540
cgatgcacac aagtgtgaga cagctgtctg cgcgtatggg acaaggatta cctggtgtaa 3600
cgatgtaagc ggataggcag atgaagaaaa aagttgggta tcatatacta acttcagtga 3660
ttggctaata cagaactcga atgaaaaaat gctgccctca tggatcaatg tcgctgaggg 3720
agcacagggtg attttggacc tgtgcaagaa gaagaataac ggggtccaag gcgagctaaa 3780
ccacaacgat cactggaggg ttattgttac aggtggtcac gagtgttatc tgcaagccgg 3840
gcctgagcag cctgtctagc atgattaaga gtgagtttgc agttgtcata gcttgctagt 3900
tattctccac atagatgaaa ttgcaacga ccgagctgta gatacgtcca ggcagtcctg 3960
gcctaagtga gtcatttat gtcaaagaca tcctctagca ttacgtggg atccagaaca 4020
catttacct aagacagcaa taggccata tagagaaaa ccacgtgttc tttgtgcaa 4080
gtaaaactgt actcgctcag cttggatcag tgcaatgcca tactcagatt atattcttcc 4140
agcatctcct gatgacggat gaggcgttga ggacgaggt acgagttgca cattccttga 4200
aatattacac tgtgcttate ttaccttcc tgtataccga actttgttcc agcaattgca 4260
tcggagtaca gtgaaggctc ttaactcaag tcttatcgtc ggtagcaatt ataacgtggt 4320
tggtaaagcga gctgcgcatg taagcgagct gcgcacctgc atacagattt cccatatttt 4380
gaccttttaa tcaacacaac gccttcatat taattattaa gcatttcttc tatgccaat 4440
tctattacag gtactacatg taggtaatgc ccgtgccttt ggtgtttgtg caccttctgc 4500
tggtggccca catggaccag gtattgttgc aattctgcga agttcaattg atgtatgaag 4560
tatgattgat tgttgtgttg ttttgaagct atcgctagt ataccgtttc ttattctgcc 4620
cgacgaccga ccgcctgggt cacggactat catccaggcc acaggccatc aacctgcgag 4680
ccaggctttg ggatatggca acaggtattg cctgaaaaga cgcattatga gcttcctcga 4740
gctctgtagc ctcttgta gaaagaccat tatcatgagc tatccatcta tgcgtacgag 4800
ctcgctttcc cctttgtata gcattttcag cacgtagtgc cctattctct tgctccaata 4860
gtagccctt ttgcattgca atttgacagc cttaattag ctggtttagg gcattatggg 4920

gcggtgatgg tggacttttt gagtgctggt tgagaaaatc tctgagtaaa gaagcttgct 4980
 ttagaagctc accaacattht gctggtgtat gtaggcaaaa agtacttgcc tggctgcacg 5040
 gcttccaggg ggtgtaggtg tacaagcctg aatactaagc tttgaaagta ctggttcagg 5100
 attcaatggc actagtcttg ctgctcgaaa actatttctg attgtatcca gcttaaatat 5160
 gctgattcga gctttagat aggctgcaag gaaatcaagt ttgttaatat agctgatacc 5220
 aagctatatt ttctgaaaac caagctggca tacaagtact tcaaaactgc aaaatatcca 5280
 atatcaagta gttgtacaag ataggaggaa tatgctggca tgcagagtag tataatatta 5340
 tgatctgtat agatttgatt aaattctggt gtataatggc ttccatggct atcaagaact 5400
 agaagttgat atcttctata tatacaatgc tctgttgaca ggataaactg cttctaaagc 5460
 cagcaaaggc tagttttatt agttgtagac ttgttaaacc caaccacaa aaccgcgcc 5520
 aaccgcgcc aacctgcaa gaaatgggtt gggtagacc ttctaattat ctattgggtt 5580
 ttggatattt ttggtgccc caaagcccg cgagcaacc cgctgggtt ccaagatatt 5640
 tgaatagga tattactata tttagattat attttcttac ttagatagtt ataatacagt 5700
 atttaaatac agtattttat taactatgta gatcactgct tattagagta atgatattga 5760
 taactaggtt attttgggtt atttaggtt ggttagaatt atttgctaaa cccatgggcg 5820
 gtttactgtg aaggtaacct accccaaaac ccacataggc ggatcagcta ggctgaaaa 5880
 cccgccccaa cccgtggtt aacaagtcta attagttgtc tatctatttg tactaatttc 5940
 aaatcaccag tcaggcagaa ggctgtaaa ccatgcttg ttatactact tgcccttaaa 6000
 gataagtatt agtagaagta cctatctaga agtactgatt gacttaattg cagtaacct 6060
 ttcacagttt cctggctgta gaactggtct ttggccacat aattctgact tggtaatcac 6120
 tttctgatgt gcacaaaggc ccattgcaaa gccagtctta tcaaagttgt agatatcatc 6180
 tggtaggatc ctgtattgtt caattgtggc ttgtatagta ttaaaccatg cttaaataac 6240
 ctttgggttc tcttgctttg cttgctggca gttgtattgc cttacaagc aagactcaag 6300
 ctccaggtgg cgttgagttt aattatatac ctatttctgg ccgacagtct ggattggggt 6360
 ggaaccatgc tttgcaagca gaatattagc catttcttat acatgagctt ttgtaggagc 6420
 tgctctgcat agatctaaag aaagaatcta ctgcttaagt acttctctt taatctcagt 6480
 caatttatgg ctatttgccg gagattccgc gcgatttgta gtccgcggtt gtcgcgtatg 6540

tagtatagat	tcaggcatat	taaagtgatg	tgctgcctcg	cgtattaata	taatctcctt	6600
ttttttatag	cctgtacagc	tagtaggagc	cgaccttctt	tctcatggca	attttggctt	6660
gaactaacgc	gaactcgggg	catggtggct	gttgggaagat	agatgaccgc	gtcacgatgt	6720
aaaaaagtgg	ttgggtgcg	actcgcttac	atgcgcactc	gcttaccaac	cacgttaagg	6780
attctagatc	catggatgat	ataatcgact	gagccacgcg	gaaatgtaag	ccgactccac	6840
atcacggact	attgcttgat	tgacagttg	atctcaaact	gtctggcggc	tgcaaaccat	6900
ggcgcttcgg	aatttccgac	catggagcac	cgcaaggat	cctttttgtc	tcgtcttcat	6960
ggcctatcca	ttctgggctt	tatcaactga	tcaatggcaa	atltgagtaa	tggcaattgc	7020
tcgagatcga	gaaacgactt	cagttgaagg	aagcgtttct	ggatagaggt	ggggtttggg	7080
tagtgggaga	ggctactgag	agcagtcgag	gcagcccagc	agaccaatga	caacagtgcg	7140
ttcacccatg	ggatgacgtc	tatccggctc	atgtatgacc	tcttcaatct	gtgtcctgtc	7200
gcacggtcac	gaaatgccta	ctccagtata	tcgtattgat	tcagtctcag	ctctaaccgc	7260
aatgacttga	ctcaggaggc	tgccggagcga	gctcgctata	tttctttttt	tgaatgacgg	7320
tcgagtcttg	ggagatctca	atcgactatt	cttcacggtc	tcccaatagt	atgtccgtca	7380
caggtccccg	ctagaggccc	agtctctttt	taccgaagtg	cggccgaaac	ctgtcacagt	7440
acgtagtgtc	cctgatcgca	tcacctgggc	cttgatacag	atattgggtc	cccatccctt	7500
caacctgtcg	tcgaaaatag	ctctaattgg	attgtcgcgt	atlttcaccg	aaatcaggaa	7560
tggagggttg	tcagctggat	taccgatact	cgatgaatct	caagaagccg	atatatagct	7620
tggggagtgc	gtacgttgcc	ctatacatat	ttcgaatacg	tagcggtagt	atgacagtta	7680
gatgacggga	gaaaacctaa	tgctcaacga	gcggacgatc	gacgctgcga	gaatacactg	7740
ggtctgttct	cctgaagggtg	ctgactatct	ataccaatat	tgccatggat	agcagtagtg	7800
attgcgatga	gaggaccatt	taattccaca	attgaactca	atccaactca	attcaaccca	7860
taaaccata	aacccttaag	cccgaaaatc	cagtagagcc	caactgaatc	aatggatgct	7920
ttggcgctcc	tccatgcttg	ttggatatct	aatcgaccgc	acaggcaata	aacacgcacc	7980
tcgactagtc	gtggctgtac	ccatggcaag	actccaagtc	tcaacgggag	tcgcgaagta	8040
ccaggaatac	acgtggcggt	cgtatagaat	agcatgctcc	agagcgctgg	atcgttagct	8100
ccacgtgttc	agcaggcaag	agggctcgat	acgcggctct	gaactaaaac	gggcatcggt	8160

acgagtttcc	cggttcaat	tctgggtccc	ttggatacca	tactattagc	tgcttatcgt	8220
accagacaat	caatgaccga	cgcctagaac	cacgcttgct	ggctcgatcg	agctcacggg	8280
agcgccagta	atagtcttct	tcccagttgg	gaatcatgtc	cgacatacga	actggcgatc	8340
taaaaaggct	gggaaagacg	caagcttcca	gaacagtcct	gagtcccttt	aaggttcttt	8400
gtctgcgttg	cggagtgggt	ggcaaacctc	ataggctgtc	tgctgctcgc	cgatcttgat	8460
ctggccaagg	tcgtcatggt	caagcctcag	aagagccatg	caatcgcagc	gtcctaggct	8520
cgatggaagt	tgttggtctc	gatcgctaga	cacgaatctc	acgaactcag	ctgcaacagg	8580
acgagaacga	aagtgttgta	cagagtatac	taacagtaat	aagattacgg	taatcagaca	8640
gcttctttat	ggcagttgca	gtatttatgc	gtaacagact	tacataatgc	gggaaggcca	8700
gatggtcagc	gtcactggcc	gagttgaaca	acaactgtca	atatacctcaa	ttctgcagct	8760
cgatcaacaa	tgaccttcta	acgacggtct	gactgcgttt	attgacgttg	tacgagcttg	8820
tcaatatgga	tcctgactat	aaatcccgca	aggaggcatt	tgtgtccaat	ctgaccgggg	8880
gaagcattct	agaaatcaat	gcagtgacgc	tcgttgcccc	tgtagtata	ggattccact	8940
gttgacgcct	cgctgcgtt	tcttcgacat	gctgacgcct	ttgaactgaa	caggcctcgg	9000
tcttcctttg	gtcgggtcta	caatcccggc	tctccttctt	cacaccctac	gggcccgccg	9060
ctctcataac	cgactttctg	ctcaatgttt	tagccatcct	cttcgcgacg	accttctact	9120
cttcgcgacc	atggctcctg	aatctcctcc	tggtctcgcc	agcttttctc	atcttaatga	9180
actcgcggtc	tcgccgcacg	caaacgaaag	cgaagcctcc	tcagaccgca	accgcgcaac	9240
atggggcagg	cgcatcttta	cccatccacc	cattcctcac	cacctaccgt	gcagctatga	9300
tgataatcac	ctgcattgct	atattggcgg	ttgacttccg	tgtctttcct	cgtcggttcg	9360
ccaaagctga	gaactggggg	acgtcgctga	tggacctggg	cgtcggctcc	ttcgtgttct	9420
cgggaggggt	ggtctccgcg	cgctctgttc	tcaagagccg	agagcgcggt	gcattgcccg	9480
aagaaaacgc	tgacacagcg	ctttacctcg	tcggtacgac	actcggtccc	gcttctcggt	9540
ttgggactgg	tcgactcta	tagcgtcaaa	aacctggact	acgcagaaca	tgtcacagaa	9600
tacggcgtgc	actggaattt	tttctttacg	ctgggggttc	tacctcatt	tgtggaactt	9660
tttgagggca	tcgccacgct	aatcccatcg	tatgaagtcc	tctcgcttgc	cgtcgcggtg	9720
ctttaccagg	tagcgcttga	atcgaccgac	ttgaagagtt	acatccttgt	ctctccacga	9780

gggcctgacc tgctttcaaa gaaccgcgaa ggagtcttct ccttcctggg atatctggcc 9840
 atcttccttg cgggacgtgc tactggaatg cgaatcatac cgggcggaat ctccccgtca 9900
 aataccccac aacaggccag gaaacgcgtg cttactagta tagggttgca agcaatagga 9960
 tacacggcgc tatttgcaat gaactctaca tattttctag ggtatggagc caacatcccc 10020
 gtctcgcgac gtctcgcaa tatgcggtac gtcctctggg ttgcagcctt caacaacgcc 10080
 cagctgtttc tcttctgtct gattgaaacc atacttttcc cttctgttca ccgagcgctc 10140
 ggatcaggca agaatgacga agcgaagcga acagattttg cgacgagccc gatattgacg 10200
 gccttcaacc gcgaaggact tgccgtgttt ttagtcgcca atctacttac tggcgcggtc 10260
 aacttaactg ttccaaccct ggatgtggat aaaacacgag ccatggctat tttggtcggg 10320
 tatgccgcct tgatcacccg ggttgctctg gggctcaaca aggctaatat caagatatcg 10380
 ctctgagcgt atggctttta agccattctg tagcataata tcgaagtacg tttagatctt 10440
 aataagacct tgtacaaagt ggagattatt ggatctttta tggccaacca tctacagacc 10500
 gacagtcgtc atttaccttc tagccgtaaa tacagccata tataagcctc aatggtagta 10560
 ctctgcaata ctacttctgg agttgcggtc cgttcagcaa ttgtgctaca agggctcttc 10620
 gttacacagt taaggttcct cgagaacgaa tgcggtaacg gcattgaaat tcatacttta 10680
 catctgagac catgataatc gcatgctgat taccagaaa gaagagatgg cgcagaatag 10740
 actcatcgat gccgatggcg gagaacaaga acgaagagt accaagaatc acatgcaaaa 10800
 agattgggca gcctgagctc ggtacgtact ccaagcttca gccttcagct ccatctgact 10860
 ctccgcttct ttatctcttt ccaacctcta tcgcaatcca taacttaca tggcgtccag 10920
 caagagtgat gcttcttca tcaactacc agaaatccgc gaaggaccct ccgtgcctta 10980
 caagaatgaa gaccagtcca tccccgtttt ccggggaaca cccttggta tcggggcttc 11040
 tttgtaagga aacaaggctc tttcttctc tcttcctttt ttggtgcttc agacttatac 11100
 taacacttca tcgtacgcag gatctcgaat attagcttcg tccagagctt cttctggcgc 11160
 ggcgcaggct tcggcgttat ccgcgaaatc cccaatttgg accagtggcc cgcccgtac 11220
 gatccgaccg tcattcctgt ccacatcgat gaacagtcca cgtcaagcgt cgcaaaccta 11280
 cccgttccgg aagggaggag aaaaggcaag gcgggatact acacctccgc cgactatcat 11340
 gccctctacc aatccgggga attgaccct acggcggttg tagactctct cctgtccgtg 11400

acccgccgcg acacgaaacc gccgggaaag cattcggttg cgttcttga atgcgcagtt 11460
 gagaaagtgc gcgctgccgc ggaggcgccc acgcagagat acaaggatgg aaagcctcta 11520
 ggacctctgg acggtatccc agttacggtg aaggatgagg tgcataatga cgggtaccga 11580
 cggactctgg gaacgaagtt ggacttcacg ggcgagtttg cggggtctac atcctggtgc 11640
 gtcaaaaagt gggaggagggc aggcgccata gtcattggga aatccaccat gcatgagctc 11700
 ggcttgggta aatctgcggt tggcccttgg actacagaac aactaagctg accgcgagca 11760
 gatacaacaa acaacaaccc taactttggt acaccaaaga atccacataa cccgaactac 11820
 tactgcggtg gttcctccgg cggatcaggt tacgccgtcg gcgcaggtct agtccccatc 11880
 gctctcgccg cagacggtgg cggttcaatc cgtatccctt cgtccttctg cggcgtctgg 11940
 ggtctcaaac cctcccacag ccgcgtcagt ggttttccaa ccgtcgggtc cgctcgcagc 12000
 gtcggcgtgc tgggtcccat tgccgccagt attgacgact tagccctagc ctatagaatt 12060
 atggcgccgc tgctcccccg tcagaagacg ccaaatacagg cgcttttccc aacccccctc 12120
 ccgagctgaa ctgcgaccct gctcactccc gcccgaagaa caagacaatc ggcatcatgc 12180
 gtgagtggac tgatagagcc gagcctgctg tccgagccgt cttegataga gccctcgact 12240
 tctaccgcaa acagaactat actatcattg atatttcaat tccctatata cctgaagggg 12300
 cacgcgccc a gttctgact attatggccg agatagcttc aggtctctcc tcgcccagcc 12360
 agatcaagca cctcactgcg cccaataaag ttctcgtctc gatgggcatg taccagatct 12420
 ctggtcagga ctctctcgcc gccagcgccc tccgaggact cctcatgtca catcttggct 12480
 tctcttcca gaaacatcca ggctgtctca tcttcacgcc tacctcccca atcccagggt 12540
 ggaagatcgc aggcggagat gctgatctcg cgcgtggggg atctgatggg aagtcctccg 12600
 tgaggaatat ggagtatgtc tggctagcaa actttactgg atgtccggct gtttcttgtc 12660
 cggcgggcta cgcagaggac aatggacacc gggttcccat cgggtgttat gcaatgggtg 12720
 aatggggtag cgaggaggac ctcatgtcat ttgcccgga aggagaagga attctggacc 12780
 ttcctgaaaa taag 12794

<210> 5925
 <211> 14344
 <212> DNA
 <213> *Aspergillus nidulans*

<400>

5925

gttccggaga gttactggcg gccgcaaatg gagagggcgc tgcaggagtt gcgggaggag 60
gctcgggtcta ccggcgcaga cgagagccgg gtcttttctga cggagaacga tattgtcacg 120
gcgtgggatac tgcgctgtgt gattgggcag gcgggcatga gcccggatag gacggtgagt 180
gccgccacaa gtgctgtatc ccccatgtt ttgcagacgc tgataacagc aggtcgctgc 240
gtccatcgcc atgtcgcttc gcaaagcctt tgaaggcgat ctcatcccc catcagcaga 300
acatccctac gtcggcaacg cgtttggtg gtccaatgtc ctcatcacg caggcgaagt 360
gacatcaaag ccactcagct ggctggcgcg gcaggtccgc aaggcaatca acgaacaagg 420
aactcgcgcg cacgatgaat catactacga gatggtgcgg atgtccggga cggcttgctt 480
atcgtgatca tgggcgacgg gggcatggcg caggtcgggt tctcaactgg gccaaaggctg 540
gactgttcga tctccacttt gcgccagcga ggatggacgg caaagggtgaa gcttgtagac 600
cgtcgtatgt ccaggagaat cacgggcctg ttaagccggc cgacggattc tttatcctcg 660
ggaaggatgg gaaggggaat tattggactt cggcgtataa ggtgaagggg acgtgggaga 720
ggttcgagca acagatgaag aaagatttcg aggtttcagg atgaatttcc ctaaacgaga 780
tcatctgcta tctgattgat agcctcatca gactagtact ctgcagtctt ctgtacttca 840
cacggcgcgg attgagtctc gttgtctgga cgaaccatac gcgcaagcgc ttttccgcgg 900
ctgtaaaaga gcactgattc aatgaaagac gaacagaaac aaacgaagaa agaagaaaat 960
tatttttcta atgcttgagt ctaggggtatt acttcggaac ctccctcttt tcaatgaact 1020
ttgtctcacc aaatgcctcc ttgacacct cgctgctcgt cacgtcccgg aaccagtcca 1080
caacaccagg gtacttggcc cgcactctct ggtcgataac aaatgtaa at cccagacca 1140
acgacgctgc aactgcgata tccgcaagac tcaactgctt gggcgtggcc agccacgtcc 1200
gtccagcaag gtgtctttcc aatgccccca aagtccgctc tagcttctcc agcgcttgg 1260
tatccgtctc tgcattataa gggactagcc cgaccgcgg gaggaagcac gtaacgacgt 1320
ggccagcgac ctccgtctcc gccattgtga ccattgctg aattgttgcg cgctcggcg 1380
gtgtcgagcc aagaagctgc tcctttgcgg gccattctc ggcgaggtac tgtgcaattg 1440
cgttcgactc gaaaatgttg accccgtcag cggacgtgaa ggctggcgcc ttgccgagg 1500
ggaacttggc caggaactcc tctgatttgt tgctgacgcc taatttgaaa gaaccgtct 1560

cgatagtgag gccgttcagg ttcgcaacgg cttggatcta tacattacca ttagcattgt	1620
actcttcac ctagagtctg gtgggatcgg cgaggggtac cttggagacc cgagggttgt	1680
tggggtagct gtagatcgtt ccgaatgcc tttatggtgcg tcttgatctg gaagaactcg	1740
ttgaggatgg agagcgagat tctagggaca tggtttctca ggagggacaa acgccctata	1800
aataccgcta aagataatct ggtcggcaca tttctcagca ccgcatccca ccggcgggga	1860
gctacttcac accgtcacgc gttgtcggag ctcaggccag gtggggattt ggatccatgg	1920
ggaaagcacg aaggaaaaag atagaagact gcggaactgc ccgaaccatc ccaccgcagc	1980
gactgctgag gtaagccagc cgggtgggctt tgatcgcctt gctgatcact ttcactcgaa	2040
gcgtcgaagc gtcaatgctg agatagcaaa gaggaagaa ggtaagatga tgattgatca	2100
tcagttactc gagatgacaa ggccgactca gtttcagtat tttgatttgt catcagtcag	2160
taacaagtac cccgcactac ggcagactat caatactacc acgcatacta aataggaag	2220
agcgagcaac caacgtaact gacatctgtc tagtggtttc gttggggctt cagctttcca	2280
gccagacaa atctcagccg aagtgattag ggtagcttgg cgcggagaag tactactgag	2340
gggtcgaaga ctgcttttga gagcgattgt aaggaagtga gttagagagt taggaaatac	2400
ctgtagagta tcacaaatgg tctaggtaga tcatttgcgg gggagaggtg tatggtggtc	2460
tttgacagct caactccgc ctcgtcctta aggtacgttc actccctgtt atctctccaa	2520
aatctggcga acccggggag aatgacctgt gcaataaagc aagtcaagcc tctcacaatg	2580
aggtgcattc agcctgctca cagagcgtag ctttaaccgg cttgattggc tgaatatctg	2640
ctatagaggt cccatcctct actgcggtgt actatctgct ccgccgaaga tatgtcctga	2700
cctgcgaagg gtacggatcc tgtctctgcc aggggaatca accacacagg atagagactc	2760
tcaccaaggg aatcctgatg gaaggtgagg agcttctgcc atcaggtcct aaaatcagca	2820
agagtcagct ggagtgtca ctttccattg tacacttccg gctgttcaaa gtgccctaag	2880
ttgaccagac ttctacctta aatggtgaag tttatacacc acctgaggga ataatagcag	2940
aacctgcttc agcgcagata tggaaaagtc tctttctctt tccccgtctt tctttggctg	3000
ttctccgatt cgcgtaaaag cggatattat cggccgtgat cttcccttc aaagaaggac	3060
ttgacagact cttggctaag cttgtacggt atcaaccacc agccctaaag atctctcgaa	3120
cttcagcttc cccggtcaga aagaccttgc aatctgtctg atcgtcgaga ccggacggaa	3180

aaggaaacga tcttggtgac ttccgcagca ctttcccg cttccatgag ttcttaatta 3240
gcaggataaa tgtggtggcc taggtggtgg atatggttgg gtcttgact gccgtgaaga 3300
cgacgtgata ggaaatcata cagcacacgg taatgcaata gagcactcaa agggacatcc 3360
ggagaggctg ctgcagctct tggttgagat tggcttgctt gaaccggcat gagagtgatg 3420
tgactctcca ggaaaattgt actgtcgagg tatgttcttc cagttatttt gaaaaataa 3480
aaaaaaaaaa aaactcctta tcacatatag catgcttggc ctccctgggt ctgagaacgt 3540
atgtgttgat tttgccttga atggccaaca atctccattt cagtgtgacg gtcttcttac 3600
ggacagtatt agggaacatg ggaattagtt tctagaagat ttgtaatgga tccatgatga 3660
gtgatcaaga ttaagctcta ggtacaacct tgatgaagat gacgtcggat ttgtcatcaa 3720
tggcgcgatt tatccctccg gctccgcaaa gagtcattat tcagcaattt atataaatct 3780
aatatcgag ccaccacata accgggtgag ctttcaacta agcacggcta accagtaatc 3840
tattgttatt tcatttcccc ccataaaca acacatcatg tctcccagcg gccctattga 3900
cgtcgaaatc cggttcctcg accccccaaa agacggttca ataccacag ccgtcgtccc 3960
cgcatccggc cctccgcagg agaactacag cgccgtcgcc caciaagtgt ccttgacaga 4020
tctccggggt cagcagtcag aatataacct tgataaagat gccttcgctg tctttcaaaa 4080
tgttccctcc gcgatgacct acgagtcgtg ggactccgac gagaccgtga agactacata 4140
ctatcgcaa gtcgaggacc tgctcttcaa gaccgtgccc ggcacgcata aagtggcat 4200
attcgatcat actattcgac ggtataacct tgaagccgat agacaacctg tcgtcttcgc 4260
gcacgtcgat caaacaccga aagccgccga actacgggtc cgcgaacacg tcaaagaccc 4320
cgaagaagtg gagaggttac tcgccggccg atacaggatc ataaacgtct ggaggccgct 4380
gaacggcaag gtcgagtcga tgccctctggc ctttgcaact gcttcgtcag ttgcgccaga 4440
ggatctgagt acgatcgagc gccggtacct acattacact ggagagacga tgggcgtgaa 4500
atataaccg aaccagaaat ggctctactg gtcgggcgtc gataacgatg agaggatctt 4560
aatcaagtgc tcagatacaa gagaagatgt tgcgcgacga gtgccgcact cagcgtttgt 4620
cgatccaagg tcgacagaga gctcgaggcc tagggaaagt attgaggtga gggcgttggc 4680
ctttggatag ccatagggca gttgaccggg aggctatgaa aagagtaata cctgaattta 4740
atgcaatcat gatatatatg tttccatggt agattctgcg tctctcgcg ttacatttct 4800

gtagagctga attctgctca tggagagttg cagaacttga aaaacaggtg cagcctgatt 4860
 ccattgccat ctacatcttc gctctccgat tcttacaacg ccaaaggcca atcgctggca 4920
 ctctgtacca aaaggaggag gcatagatat ggacgtacct ttttcagtct ataaattccc 4980
 atttccagac aaaatccgca ggaacgaatg tcgcgagga cgccttcgac tggtaagagt 5040
 gctacagtta ataataatgct ttccacaatg ctcaaaagtt ttcaaaagat agctcctttc 5100
 tccaacaata agcatatcgt agacgaggct caattgttcc gctgccatct agagttgatc 5160
 caccctccgt aaaccggacc gccatatcgg gaaacagccg aggctaacag ctgtaggtat 5220
 taccagcacc aaaatacagt gccttccatt ttaggaaaga cgccgcatgt cacgggcaat 5280
 tctccatcca tctctctacg atcagtaaat gctctattta tgcgctaata tctccaggct 5340
 tcatcagatc agctagactc actcgtttct gctcagatat cggcaggact gagccaagag 5400
 cggggcaaat ggattacagc catgtcgaca gcgatggctg ataccattgg acagtcgtga 5460
 ttgactggtc ataatgcagc gaggaggctg atcaagcctt ttgctcccag tcatacccat 5520
 ctttcgtgtc gcgataagca aaccacttcc acagctttca gatgcatccc agagggcaca 5580
 acatggacgt gcctcccat attcaaataa gagataggct gtatctgaaa gccagagacg 5640
 ctgacaatga ttacttccct agaagccgca tcatgagtgt tttcacaacg gacgactgcc 5700
 tcaggaaggt ctacttctgc gactgtcttc tatgccgtca agatttcaga aatccccgaca 5760
 acagacgtca aaccttcgac tcacaagagc tcttgggcca gtatgcgacc gtgtatgccc 5820
 tgcttattta caatctaccg cccaggcttg atacgccatt ttcagagata tcgaagaacc 5880
 ttagacggga ccatttttt tactgaggac tctttgaggt tccttgataa agaaggggtt 5940
 cagttgcgat cgatcataca agatatctta aataatcaat acaagttcca tatccgcgtg 6000
 attgaccggt cgcgcgagcc gatcacgatg caccgaggcg aagtgcctcc gatccgcca 6060
 aatatggagc agacaggcca gggctcgttt gggcaggtct atggatttga gttcgcctac 6120
 gacgagtatc gcggacaggg gttgcgagac ataaccggt tcgccaggaa gatctttcac 6180
 cgcgacactg ccggtttgga tgaatggttt aatctcctgc actttgatcg gctgcaacat 6240
 ccgcatctga tgtccgcctt ggcggcattc tggcatgaag acaagttctc tattgtcttt 6300
 gaggaagccg acctgacgct tgggtgcctat ctggaaaacg gcggccatct ctacactcat 6360
 gaggcgctct ggaaccaggt ccaaggattg gccgatgggc tcgcatatct acatggacga 6420

agtgggtcag ttatcgcata ccattggtgac ctaaagccgg ccaatatacct tatcgtcaga 6480
 ggagtgatga agatcgctga ttttgggttg ttgcaagttc gctaccggtc aatcgcaaac 6540
 aatcttgagg tatggtcggt ggaaagcgat accattgctt ctatcggtcg aatatatggt 6600
 gggccagacc acagtaataa agcattgatg gatgtatggt cttttgccgc tattctatcc 6660
 gaaatatccg tgttcaatth agaggggtata caggggctta agcgtaccg tcagcgtcgg 6720
 tttgatgatg tccaggaggc aactccttct tataagacct ataactttcg acatgatata 6780
 cagatgaaag cctcagtgtc tcaaacaatc gatgacctgc agcaactagt ccagaacagc 6840
 gagcaacagc aaaccctgat ttcgcggttc caacgacgtt tcttcaatgc tggcttcttt 6900
 accctgttgc gtcagatggt ttcaagagac tatgcagact gcccgtcac aactcacgtt 6960
 tctgaggagc tgaggaggat tcaactggcag gctacgctgc cactgcagga ggctgttcaa 7020
 cgtggaaaca tctgggatga tgtgagcagt ggggcagtgc caaatagccc ccaaaggccc 7080
 aactgtagac tgtaagtaaa gcaaccctgc tggttctgtg gtgactaata gtgtataagg 7140
 cgcgcaaggc ttttcgagca aacctccagt ttaactagaa cagactgcgg catacttctt 7200
 tttgactgga aagagggcaa atcaacttct gtccaatgcg tctatatga ttacaacgat 7260
 gtcaacatat atattctcca agaacgctgt aagggccctt gatctgggta cttattcctg 7320
 ctaacaagct gaagttatga ggctgaacca agagtacca agtttcgacc cggaatatac 7380
 agacaggagc agtaaccgac catcactcag ggcaactttg cagcaatggg acggtcgtag 7440
 gtacacattt gaattcgctg agcttaggga acttcttatt ctgcaggccg ccatgaccaa 7500
 gcaatacgtc ttttaatttg atgtgtgctt tgcaacctac tagttacgtt gattaacaaa 7560
 attgcaagct cctcgttcaa cttgcgctct ttatctattt cagaacatag tattccgttt 7620
 tctggtcgac gccgacttgt tctcgaacta aacagagcgg tagtccagtt gtggtctgag 7680
 aagccacttc gggaagatca gatcttgttg cccgccactc ccagagtcgt caatcctcga 7740
 atgcacattg ccgttatatg cagaaacgag aagaagttgt tgctgatcaa aggtatctgg 7800
 gcaccgctc tcatcaactt tgctgacctg aattgccagt gagttccaga acgatagccg 7860
 agccagtcga taacacgtca ggcactctca ccctcaagaa cgtccaccac tatgaaacat 7920
 ctatggagca tggcttgccg atgcagattc ccgatgcaga gtcaggctac actcagcaca 7980
 agaaagctca tcttaccttt gatgggcctg aaggtagatt tgtctggcat acaagttcta 8040

atatacatgg ttactgacgc ctggtagcgg aacagaacgc taggtcgttt caacagcagc 8100
tggaagattt ccagaaagag tgggaaagga atagacgcga tctgctggag agcgcaaggg 8160
gatgacagct tcggtgttcc ttttcagcac aggcttcaat gtctttctgc atgtgtttga 8220
tttcaatttc ctctctgct gataagccac ccaaagcagt accgtgcacc ccgacatccc 8280
caatgccata actatata tccaaaagtt tgacgcgatg tgagatctcc ctccacatag 8340
tcaaagaagt tggtaaccga tagtgtctaa tgtcctgtca gcctgacttc ctcggatagg 8400
gcgtcggtag ctacggcaag aaacatggcc gggaggaaga tggccgaaat tagtgacaca 8460
atggacattg atctggtttc acgagcgttt ttctctgcc agtcacgcat tctgacattg 8520
atcttggccg cgggtgtctgt cggccggatg tctaataat tttggaccta attccgtcag 8580
ttttgacccc caaacaccac caaacaccat attgtgacac ctacgatcat accacatccc 8640
cttgcccgac ttattagcga ctggatcctg cttctgtgaa ccctgtgctg caggattgat 8700
gtttgcagga tcgacgttgt ttcttcaaag gctggtgcta gacgcgaggg tgagtgcctc 8760
tgagcgcgcc cgagaaacga ctgtatttct ccgccaatgt caatattgcg ctgaagaacc 8820
tggtccaatt tttccagctt gtccgtgaaa acccgtagat ctcggtatgc ggcaaagtcc 8880
gcttcgaaat ctcttccag cgttggctcg gtcaaactg aataaaagcc ccgcgacacc 8940
tgtcactatc agtccaacc gcaactgacct aatatacatt gataattacc attttcgaaa 9000
atgtcgcttc tagatagacg agatactctc gccatgcctg cgtggcagtc tggaatataa 9060
tcccatgtat gctaatttgg aactccgct gtgactcttg tgggtgcgcg aaatactccc 9120
tgtccgctcc tgtagctctt gaggtggctg tataattacc cattgggtat gctgcgtcgc 9180
agcatcgtaa gccatgatat accccggttt cgcgcacgga gaatgggtcc tttggaatgg 9240
atcgctccgtg ggcggccacg tacttgatgt tgtatccaat gtctgcagct tcagcacgctc 9300
gatccatcca ggtctgggat attgggtgtt ctaccatag ctacaaccgg actcgggtggc 9360
tagattttct gatgagagcg gccgacagtg ggagaaaaat gagctgtacg attgctcaac 9420
aggacccgac ttttccgcaa aaagaaagac aatatcgagg tactccggat gcactcgaag 9480
aaaactgaac agcttcttta gaaactcagc cgagactcgt agctggcccc acgagtcgta 9540
ctggtacagg aaactgcggc agtcagtata cgctcccgtt tcgttagcag gtcgacagac 9600
aacacccatg agcatcgagg tttctggaag atctctgtca actccgatgt agaattgatt 9660

gcagtatatt tggcaattct cgaaccgtct gtatgaatca gtcacgaag gtgcaagagt 9720
gttaatatatac gaatgcgcac cttggcggat tgacccaaag tcgaggattt gcgccacatt 9780
ctcgtcctcg tctgtgtccg aactctcgtc gaagtccaca ctctcaccg caaaaagacg 9840
cttctctgcc tgtgcgaggc gccgatcata gcctttggcg tcgacctcg cagctgataa 9900
gcacagattg cgtgggtaga tggaccagcc ttcaagattg cgagaacttc ttgtcattgt 9960
ggcttctaata cctagcgggt atgaataaaa agcacgctac actttgcaga gacatatatt 10020
atatactacc aagcgaggcg caattcaggg tgttggctgt gctcagagcg acgaatcggg 10080
atggccgttt gccttcgcct tgcccaagaa aaaacaaaca catgcctcgc catcaccacc 10140
caatgagcgc tttctgcctt gcgtagatag caccgatcgg ccgtgtccag ctgaacaact 10200
ggtcctgtc gtcctcgctt aagcaccgga agccggggag atgggagagg tgggagattg 10260
cgctgacca tcggttcttg cgcgacgtct tttccggcat tttcttagga cctcgatcag 10320
ctcttctat agtggcgaag cgtcaaaatt tcatgttgc gtctttgcat agcaatgact 10380
cacttcggtc aactcgtggg gcaacttgaat cttccagttg tcgccatctt ggagttcctg 10440
gagacaaggc cctaagcgtg cggccgataa gctgatgtgg aaaggacact tacaagcact 10500
tgcaccttcc cggccccgaa catctcctca agacactcat atagcacctt gccgctcacc 10560
gtgtagcggg ttgggattat ttggacgatc attttacttg attgggtggt ttctcgtgg 10620
cgcagatacg agaaggatga tggcaccg cgccggcat ggagaccag cttttttatg 10680
ccagtcgga gtattggcg gggctagtcg tctgtgcaat gctcatctat tcctatctag 10740
tgactcgtga ggctcttg cgccagagg cccgggctag aatcctccag cttgttgac 10800
caattgtgcc atcacggttg ctcaataaac tctgacttc tgctgacat ccacctttc 10860
cgcactctg catcgcttg tcggctttgt agattccttc atcgccataa tgaatggcca 10920
cgtcgaaact gctgactgc cagcgcatcg cgcacccag gattccgaaa ccgagcagcc 10980
gccgcatc gacgagcagc aggcgctaag cagctggac gttgcgtgcc tcattatcaa 11040
caagatgata gggggaggca tattcgtgtc gccgaggata gttgccact tgactggcaa 11100
caagctcatc gctttgtccc tctggatttt tggaggagta tattcgttct gcaggtagac 11160
gttgccgcgc cgtcgagttg aactatacct gaccgatat ccagtatcta catatatctt 11220
gaatatggcc tcgctggcc ttacaatggt ggcgagttta tctacgtaag gtccttgac 11280

cttgtagctt ctttgagtg ccacgacgcc cgctaacgat tcgggctgta gatatccaag 11340
 attttccccg tgctcctctt gcttttcgcc agcgcttcg catgggtttt catcgcatcc 11400
 gcaacaccca cctccaactc agttacgttt gcgcgctata tcaacccgac caaggatggc 11460
 caacccgatg tctggttcac caagttcttc gcgtgcgtga tcgtggtggg aatatgcgcg 11520
 gtacactatc gactcgtgaa catcggatc tgggcgaacg actgcctggc ggtatacaag 11580
 gtctgttctt tgctggtgct ggtcctagcc gggttcgtgg aaacctgtcg ccaggagact 11640
 gacggcggct tgctgggact cggagactat gccacgactc acggaagccc ttcgccaact 11700
 aacgttgcg cgtgtatcct ccaggttctg tacagttacc agggctggga aaacgccagt 11760
 gcgtcaagct tcttctcgcc gtacttactt ggtcgactaa cgtggtgcac agactatgtg 11820
 acatcggaga tcaagggggc aggagagcat aagaaacgaa ggttgaagcg cggcgcgttc 11880
 atcgcgatca gtattgtcat gtttctctat atctccttca acatgtttgt ggtatgttaa 11940
 attgctatat ggcaagaaa catgcttatt gttgccagtt tttcatcatg gactttgctt 12000
 cagtcaccaa tccccggaat aatgtcgccg cagactatgc catcagcgta gggcccttct 12060
 gccatccgtt agtattttta ataaccgcac caggttttcc gaacaagcca taccaagatg 12120
 gcgagccacg cgatctacgt caacattgca ttggccgccc ctggaaacat catcggagtc 12180
 acctttagca atgccagggg taggtgaagt tcaactgaaga ccgaatatga aactgacatg 12240
 tctagtgaac cgcgatattg cgaagcatcg cattatccca ttctacaagt tcttctccaa 12300
 aagttccaag tatgggagta cccagtggga caacctgggc actccgactg gtggtctgat 12360
 cctccaagct ctggttacct gcataaccat tgcacctac gagccatata ggaccaacct 12420
 tacaatgtac acgtatggcc atgccgtggt gtgctgtacg taccaccacc ccagcattgc 12480
 atactagctc taactgaaat tacctaggcg cgcttggtat tggggtcttc tttattcgaa 12540
 agcgaatgaa ccagtacgag acaagttcca ctgaccagc agacaagaca tatggcaacc 12600
 actggaagta ccaggtaatg aagtcaagcc agctccgcta cacagccacc atcttcttca 12660
 tagtcgtcaa cctgttcctt gtcgttgctc cgtttatacc ctccgataac cccgacggaa 12720
 cccccagaga tacaccctcg tgggtgcagc cggcatcgt cactgctctt tacgctttgg 12780
 gagcctcagt ttcgctttat attatcacct tcgtagagga tctcaaattc cgcggcagca 12840
 ggtacaacgt tcacgatccc agcgacttga gcggttttat caactacaat gagcgaccgt 12900

ggatcgtgag gtatccgggc tattcccaat ggccatgggg ctggaaaagc gcgttcaggc 12960
 tgcttccaac gttgtttaca cccctttcct gggaaaggat caaagagaga ctcttcacaa 13020
 atggtgaagc ggaggcagcg aaagagctga gaaggaaggc ccagcagccg ctggaaccag 13080
 cgtacaggct tgaacaatac ctggtccttc cctgattgtt ctatgaagta acgcagcggc 13140
 tgctttctat gctattttcg gttgcctctg gatgttggat gaaagatgta cgggtgtcaat 13200
 gaagtcaagg gctacttccg ttgtatgtgc ttcattatat tttgaacaaa taacgctttt 13260
 agatcatgga cataaataaa cgaacccaat agacatgggtg gtgccaatg ttagactcct 13320
 cgatcagatc aaatcgatca tcacaatgtc ggcaagtaga aaatccttgg gcgctggtcc 13380
 agccggcatt attcccctta tccccctaatt tctcgcggg aggccagata tctccgttta 13440
 tactgaatca tgtcagccat agcttttcaa aatttgtagg aaatatacaa tgtgcaatgc 13500
 agccgtgctc tcggcccccc ccccttccg gtccatcaaa ccatgctaata agaggatcct 13560
 tgtacacatc gatatgcggg tgctatagta taaacattgc tgctgctgac gccgccagtt 13620
 tccctgcagc acaacaatca ccgaggttct tcctaagtgc aaacatgaat agcctctagt 13680
 gacacatcct gagtaacaac ctgatggatg ttgcgcatcat gagacgcata aatcggtcac 13740
 gcccggtat cctccgaga agaaactaaa agtaccttca gctttaggaa tggattagta 13800
 ttgctgggtc ggcattttta ggcctagatt tgcaccata tatcgacact ccacataagt 13860
 atttcatgaa cgaatacagt gtcaaataaa tgattcggct ctagaagagc cttcgtaatg 13920
 cattgtgttg tatcgataaa gggcagcaga ccggtgacac tgcgagaagt ggcttcaatg 13980
 gctttttccc atgcgggctc tgagaaccct ttgaattatc ttagaatcat atattccagc 14040
 gcagcttttt attccaaggg tggataatgg caagagaggc gatatatatc tggctctcgt 14100
 agccaaggta ttcgggaatt gaatatggct gtttatggta aataaaagac gaacaggaca 14160
 agggaaaaag tccttttcaa atattttggt taagcgaaat aaaatacata taaaaaagtt 14220
 gagctttttg tgaccgattc gacggcggtc tattccctac taggtgaaag tcgtcaagag 14280
 aggatgaagc cctaagtcta gtaatggctg gtcccttcaa aaatatattt caagtagaaa 14340
 cctc 14344

<210> 5926
 <211> 10072
 <212> DNA

<213> Aspergillus nidulans

<400> 5926

gaaagatgat cgagttgaca aggccgacga tccattcatc tcgcccttca ccggcaatgt 60
tgaactcatc gtggaactgc aggttggccc cgttggaccc ggtctgatcc cagccctgtg 120
tggcagctcc aatggcacac agaccaatcg agtaccaaag catcctgggc ccgtgccatt 180
tgtggtcttt ctcgactga agcgcggtcc gttcctcctc actgagttcg gggatggtta 240
agaagttgtc tggatcgcg cgcacgagcg cagctcgacc aaaaacgtcg gcgtgctcgt 300
ccatcccgtg ggtctgggcg aacacgcggg cgctcgtagac agcctgctct cgggaaacat 360
tctacagtgt accatcagta tcaggcccgg tctacattca gcgccccgga ctcacctgga 420
gagggttctg gatgatgttg acggcggtcg atccacggcg tgctgagtca gcttgcaaag 480
ctttcgtagc cgggaccacg tatggcacct cctcgtgagt cgccgaagcg tcagaggcca 540
cctttttgtc catggcgatg gagttggcca gataacaaca aggggacgat aacggcgttc 600
aggagtctgc ggtttggggg ggtagaggga tgagggacga cggacaagga gagaacaaaa 660
acgctccagc cggcccctgg gatgagcatc aaacagatat taatgccgta tccccgcgc 720
ctggcccaat tcgaaagctc gcatgcacaa agaaaagcaa cgacggggct gattggggca 780
cagcctggga cggcgccgag aattgattgg tggaaatggc cggttgcca ccggagcaaa 840
cgagtgaaga ccaactgaatg gcttcacttc ccagagcctt aatgctcctg tgccgtgtgg 900
cgtgaggccg tcccatggga ggcgcccata gcgcatctgg agcaggccgg ggtgagattc 960
gggtttcagc cgtgcgcac cggacggcga gacggcgagg ccaggctgcc tggcctgccg 1020
cgcgatccca atgcaacagt cccgagttcc catggatgcc gacattttac ggtgtcttca 1080
ccttgacggc cccggactcc ccagaacccc agactccagg ccgaccccaa gccaggtt 1140
ggggtggcct gcgattggct ggccgcgcga agtcaaggcc agagaagccg tggtaagcat 1200
cgacaagac gagacagagt gggattctga ctgccccaaag gtttttgctt agtgctctt 1260
gggcgtcgct gggcggatec ttcgtectca tccgttacc ctcgatttgc cgactgaccc 1320
agcctggata tacgtggca ccggtcatcg gaccggatgt ccatctggga acatcaggat 1380
agctgccttg gcagtattgg cgcctgatg accgtcaaact ctgtactact tcggagaatg 1440
tttatctgct gtctaccatg tggcgggacc cggccaagaa tgccgggtac ttggccgggg 1500

gccaaaagag tatggagaag caaaataatg ggcggggaat ctggagagac tcgggctaga 1560
ccaaacagga ctagttaatg taaccctgct ctgtctcttg gcgtatcttc gtctctcttg 1620
tcagagtact ccagagtcgt cccatcctaa tgcggggaac aactgcgctg atcatgtgcc 1680
ttcaacctca tccttcatta aatccttcgt ccttcgacgc cgcacctcaa cgctcgctag 1740
ccgagtgccg attttacgaa ttacgacaga ttatgacaga ttttggtacg gcttatggta 1800
cgactcatgg tacgattaat gacggattac tctgagtaga tgcttgccgc gctctcgccc 1860
atcgctcaca tgactcacat gccagagaac tcggcaacgc cgtcaacagt cagccttctc 1920
gtcgcattct gatcctcgct cttggcccca ctggatatag tctgggccga gaaattcccg 1980
caaacagagt ttccgtaaag tttctgttaa ggttgtagt cgtcgcattg ccacgttgta 2040
tgcaagggtc acccaagacg cgaaagtgcg gaataatccg cttgtggaga ctgtggaagc 2100
tattcgattc ccagagaacc ataatttaa gaaaaaagc aataatgaaa aagaaaaacg 2160
taatgaacct caacttgagt aacctgaaac ggacggctac gcaagaattc cacatacggc 2220
atgtatggag ttctctggta cactgcacgc tgtcaagaag gcatggccag caggcatggc 2280
agccacgca gtcccgaccg caccgcagcc ttgattgtcc cttccgtttc tgtccgtcta 2340
cataccgcc agtcaatcca agcgagtcca agcgagtcca tgcgatccgt gtgcagtatt 2400
tatccggaac tgctgagcca ttcggaaatc tgttggaaag ccgttccaag atcagtccta 2460
gatccgtcca agatcagtcg ggccaagacg aaccaagatt actgatgtag cactgcggtc 2520
tcacctaggc aagctaata accctcaaca catccgcaga gaataagcat cgggcacctg 2580
gtcacggtgt aggatcgtga cgccatggag tattaacgcc aaactctggg gaggtctctt 2640
cgttaatatg atatactccg gagtaatccc cttgacgcca cctccgcaag cggtgactg 2700
ggccgaatcc cgccgacaat cgatacgcca ccatttaata tattgattta atatatggat 2760
attgaatagg cagccagttt agccggttta gttgggtttt gcggcggaca tctacgtcat 2820
taaggttggt cggctcctact tcagtattaa atgtattaac tatattcaag cgtagacgat 2880
cacaatctct gaagttgggt ctcatcgtc acgcaggata cctatacgca ggctaaata 2940
tatgctactt ttcaggacgc ccggaagtat cgaagtagct gaggatctgt atatatcttg 3000
gttctacttt gtaggttgta attaggatat tatggccatg catttcctcc attacctcat 3060
atagatcaca ccctgctcga cctggctggg cctcgcttca gcaataatgt tcacaaagcg 3120

tagataatgt	cgtctcgaga	gatgctctgc	atagatagga	aggcaactgt	tctcctggtc	3180
ggctgctaca	ccgtccgact	caggcttttc	cgcaggtaca	gatcgaacga	tgctgatggt	3240
ttacatagag	ccaccgactc	agtcaacgga	cttcaatgcg	aagaatgcga	agaaaggttc	3300
tattcccgtt	cctgaggtct	caacgcgctc	tccagccaat	ggctccgagg	agaggtcgag	3360
gtagacagt	tatgtattcc	ttatatccag	catcaaccga	ttgaggagac	acagctatgg	3420
cgtaaagtgt	aatagacttg	atattcagtc	ttgctgtcca	tagcactacc	tctacttggc	3480
ttgcaaaaaa	aaatgtttta	ttacttgaca	cgtgggaatc	tctgcaatac	ttgttaacca	3540
taagcgact	tggtttgacg	caactggagct	tacatccctt	gcataatctag	tgcatcagat	3600
gactatgaaa	cgcaaaacac	atggcggtga	ggatatttcca	ttttatccag	tgcaaacgtg	3660
ctgtgatatg	gaataacctt	tagtccggga	aatatataag	gtattatcct	agacattcat	3720
actttcttcc	gtgctatttc	aactggaact	aggtagatcc	tttgacctag	tatcttacct	3780
tccaggcctc	agataagaac	gggtgctggga	gacagcgag	caaaatcata	ttaaatagca	3840
tgagctgtca	cgagcaaaac	atgtggcaag	gagaaagaca	aagactaata	agctatgtta	3900
tagaagaacc	tggtgaaagt	actctagaat	agtactataa	ggcaggaaat	gaaggctgta	3960
tcaatgcaat	ttggaagtcc	tacaccaggt	cccactaata	atgaggatac	actaaagtca	4020
atcacagaag	acttaaaatt	ttaaggcaat	gatatagaga	ttgtattaaa	gcacctttag	4080
ataatctgaa	agctgcacaa	ctgcatagac	aaccatttgg	gttttgcagc	tgatgtagac	4140
tccagttgag	agtccttcca	cgtgctggtg	gtacgactgg	cgttttttaa	tactccagt	4200
cagaagtgca	aggtctagcg	tctctagtgc	tatgctattg	agcctacgca	cgggattcac	4260
taccagatc	attagtatcc	gggcttgcca	gcctagactt	ctgctctatc	cttttcggcc	4320
taagtgatca	gaccatgagc	acatgttctc	gctgacctag	agccgcagtc	aactggccaa	4380
tagagccttt	aggcctcgta	aattgtgtgt	cttgaccgt	actcccagca	aataaagctg	4440
gaggataata	tactctgaga	tgaatgtgcc	agaagtatat	gattcttgat	tccacgttta	4500
ttctaatacct	aaaaatagta	gtactagcat	atattttctt	ctttagaaat	gctctggttt	4560
ttatcgagga	tggtatgaatg	atagcacaga	ttacttcgat	catcagtgtc	gctgagatcc	4620
tggttggttg	gcattcttga	atcaataaaa	attctgttat	tgaaagcagc	aaccagaac	4680
taggtgtaat	tggtgaccag	gcagagccag	acatgcgcta	aaggcatcac	tgtcaaccat	4740

ctgtatcgaa	tctggaagat	gtgggggctt	ctggagcacg	gcgctggcac	gctgaagtgg	4800
ccgttggttg	taaagaaaca	aaccatacta	agcatttaac	gcacattact	taaacccgtc	4860
cgctaatac	atgaagtagg	tgctcactat	tgaccgctcg	atatttgagg	ggcgctaaag	4920
gcgcaagttt	taggggccgt	aaggaattca	gaattaagtc	tacgccggga	gaatatgctc	4980
taaacaagct	tgtcttgata	aagagacccc	tgttgtagga	cctaatagaag	gcaacacaag	5040
cgatgtgcca	gccattgac	ctaggctgaa	ggccaacccat	gctactttca	catgcgtatt	5100
ttcggctacc	acactaccct	gttatcaggt	ctttatgaca	gagcaaagg	acagctcatg	5160
cattttcatt	taatgcttaa	tgtgagactt	tgcaaggcgc	tctactcaga	agacgtacca	5220
ggttcggtgt	acatatatcc	cagctattgc	agggtctgt	ttccagagg	caacaagcgg	5280
ttttgatgac	ttgatttggg	ggtgcataac	ttcattttac	tagggcctaaa	tcctatgtgc	5340
aggaactacc	catcgagacc	caatgctcaa	ctccatatat	tttagactag	caggctgcgc	5400
tatacacgac	atattaaagc	atgtaaattc	tatgtagttt	ttctttcgtg	cgagaatata	5460
gacatcatcg	gtaagtgtca	actactgtaa	cgggtgtagg	cagtattatt	ttcaactagc	5520
tgtcctgtat	aaacgagtat	cacaagctta	gagaaagaaa	caaaaaatag	aagcgcagat	5580
atcttctctc	tccctttatc	aacctttctg	acttcccggg	cctgtatgcc	gacggatccc	5640
ttttccaaag	ttatgaggac	ggatctcctt	tcctaagctt	cgaggccgca	atttccgaag	5700
ctgtacactg	atgttgacga	aaccttattt	agaaccaggt	tgagggcattg	gccgacaacc	5760
aagatccagg	ccatagcctg	tgacaactac	gttcaaattt	gctgtgttag	aacagaaccc	5820
tgaaataacg	caacaggcca	ctggcagaaa	gatacttacc	tcaaagtata	tattaagctt	5880
ggccgcataa	taagaaacga	acgaacaaca	gccccgagc	tctaaggaaa	acagttaatg	5940
aacttcaaga	ctgtcaaagt	accacagatc	caattgtctg	ataatctctc	agccaatctc	6000
ggtatgccaa	tgtacaatcg	cgacttagcg	atgagcttaa	acaggagaag	aatacaggtc	6060
ccagcttcag	aaaccaccaa	ctggtgagct	atatttgtgt	atcgtacgga	acttggtcta	6120
gaaccatacc	tcagtgcattg	aggctctgtg	tctacatccg	cgggagcgtc	ttgaggtcta	6180
ccagcgcgtg	cgcagtgcag	aggccctaga	ggtccagaga	gcattatgaa	ggagcaagta	6240
atagtcagac	agtgacaatt	actgcagaga	gtatcgtcgc	cagaagcttc	acacggccta	6300
ctacggttat	cacctttctg	gacgacggtg	acactggaac	cgttctgtga	acccgtcagg	6360

acctacgatg tagtggtata tgcagttggt tttcttcgaa gactgaccag aaatgcgatt 6420
 gcaatcatcg cggctctactt ggctctgcc aacagcgggt cgtacaatcc taacatcaac 6480
 ccccttcctt tcttgcgaaac tgggtgtcaa ttaagaccgc cgcactcgac atgtgagaga 6540
 aagagatcgc attgatgaca ccatccagca gatccatcat acgagtatat gtacgaagta 6600
 gatgacctcg cccggcgga aacctcctag tccccgacct cagctaccta ttccccctcg 6660
 tcaccgagga caataactgc gacatcagcg gtgttaccca ggggccccgc tcgatctctc 6720
 tattcggact acgaagaata tatttacaaa gccgatctgg ataaccggga ggatgaggcg 6780
 cgcttatacg ttacggaacc atgaccgatg ccccgacctac tttgccctaa ctccctgaga 6840
 ccgatgacta ctgccttttg ggcggttttc ccgtgagcag cgcagcacia tgaatggcat 6900
 gaaagccatg tcaaagagtgc cacttttggt cctgagcgct aggacgttct cacatctggt 6960
 atgggaaccg agcaacgaag tatggaaaca ttttgacctg tgtgaccaa ttcagctgta 7020
 agctcctgct ggtggtgcat ggttgatttg acaccgatta gtttgatcaa gataactaag 7080
 gttccgcctg gaggcagcat agatcgtaaa ctcgccccgac tgcgtttaat ctcgagctgt 7140
 ataccttctt ggccgaatcg tgccactatt gacgggaagt aagagcctct tcatgacggt 7200
 tatgcggaca tttgggatta tattgaacca gcttatggat cggaaggggt gactaggaga 7260
 cagcgcggtg ggatgcggtg atggatatit gaggcttcca ctctagacca tagaattgga 7320
 ttcgtgtggc ccattggtct gcacaagtag tgcagtttcc gtgatccccg tatatagttt 7380
 acgtcttagc agcaaccgtc tctcacatct cacaccaatc catcaaccat gcccttgac 7440
 actgccggtg tgagcttacc aacatcagta tcagattctg gacaaggctg gtctttgtgc 7500
 ctttcgtctg gcatgcaagg ctctgcacgc taaattgcag accacctttg cagctttctt 7560
 ccagcgctc actgtcttta gcaccagga aagcctcgac ggatttgaag ctgtcgctca 7620
 cagccacct tccgcctcta cgtaaaagag gtagctctgg ttgctgatgt gttccggggc 7680
 ctttataacc ccgatttcac caccttttcc gcagccaagc gctacaagct cccctagcag 7740
 agagctggaa aatggtgtgc cgaatactac aagcgaacta ccatgcctac caaactgtgg 7800
 tggcggagca tctctccctc atcagctcgg atctcctggc agagactctc gccagctgca 7860
 tgagcagatt cgagaatctt tctgccgtgg ggttaagggt atacggaagt caagtcctcc 7920
 gtccctgcac gatacaccag ggaagccagc tatctggctg ggccgcccgc cgcttcgaga 7980

ccagttcggc tacagcccggt tatttccccc tttccctcgg gctcaggatt cttatcatgc 8040
 ggccaagctt gatgtatact ctgaagtaaa tatctttctg ccagtggcct attcgtgctc 8100
 ctgtttctcg gcgcttccaa aggctaaatc agcctcatcg acgacaatcc gagagccata 8160
 cacttgcgcc gagaatgagc ggtgccgtgg tttccgctg agcaactaat attgttccaa 8220
 gaaggttact atgctttgct tcctggcttg tataagctag agaccctcca tctctgcatt 8280
 cattatacgg actcggttgc gcgcagacgt ctgcaacacc tgctcaaaag tactaccacc 8340
 ggtcttaaga tcgtaaagct gtctcaatgg aggacggtgg aaaaaatgag ctctgatccg 8400
 tgtatctatc cttcccgcat cttcattttc cccgacggtc ggaacttcat cttcactggg 8460
 tcaaagttac tcgggatggc cttcaggccg ccgcaatagc gccccgagcc ttaacaacgt 8520
 caccttggtc tcaggaaaca taatcgaccc gatactgcat tttacgacat acgcgtttac 8580
 cgctatgcgt ctgcctgtg gcggtgttct tgtgatecct tcccgatatc tctactacata 8640
 tccaatacct gtcgattaaa gacctgcct acctcggtaa aatatcattg tcatcgccga 8700
 cccgcgggac ggcctaaatg gcggccgaaa atttcagaga agtcaggttt tcctctgcta 8760
 gaagactatt cgaacatcgc tatccgcgcc ccaatggctc agccagctgg aatagagaag 8820
 ctacacagga ggatctctcc ccaacatcac tgggtgtgtt ttcgtcccca aagcggtaa 8880
 atatatcttt attctctctg tcttttgttc ccagagcttt tctaaatggg tcactttact 8940
 attaccaatg caaaactgca ttaaaggcgt tatatcgaa gaaccgtcag ccccccggtg 9000
 ggacccgcga ttttcaccgc ttatgttggt cccggcaagg gtcgaatcaa ggcacccgaa 9060
 ccggagctga tgctctggtg gttcgatgag taggctgatt cttcgagaca gcgtgcatgt 9120
 ggattacctc gaaccctata acggatgaat atactgtatg cgcgtataga ctcgttcagt 9180
 aagctccaag tgtccatggg aaaatgttta gttaccaggc cagacaaatt cgtaatccaa 9240
 attaatgatg ccttactcat tagtggcttc cagccaagct gtaagattgt agagcttgaa 9300
 aggaatataa agaatagata aaagaggcct atattgtggt tgcagactgg gtcgctcgaa 9360
 tccaagcgct cattcgacac attccagagg gattaagaac gtggtgagcg ctgaagagtc 9420
 gtgtgaacat attaggacgt taaagtgata gctcactact ctgaaggtag ggggtggaatg 9480
 cagtcgtcta tatgggctca gggcggtcaa ctcagcgttg atgcagcaga tcctcatatt 9540
 ctggctgtta gtaacgcaac agtcagaaac catttgaata ctcagctgcc tggatctgtg 9600

cccgctcagc ggacctgata ctctctggta gctgggtcaat ggcgagagcaa tcgttcgagg 9660
 tggagtggcg cccacttggtg atagacggcc acgacaaatc tatattctat cataaccagt 9720
 tccatatcaa tttccattct agtcgtgccc gtcgtctgtc tgaggactcg cactggctct 9780
 catccccgct cctccgcttc agtctgactc cggctctcta catgccccatg agcaggatcc 9840
 tcatttccat ccttcccaaa aacacctctt ttaacctcaa accggaactg ttcttcgtcc 9900
 tcccaaagct gctctttcaa ctttgcatgc gccctccaaa caggcttgat ctcgaacaga 9960
 cggttccacag cctccagcgg aatcccgtc gtctcgggta tgaggaagac gcaaagaaga 10020
 aggcgcagaa aaagagtgcg gcgaagaaga agtacacccc gtagtgcatt gt 10072

<210> 5927
 <211> 7579
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 5927

tcttatcgct ctatgagtaa aaattgggag agttgagcgc ttgagaactt ggagagagtg 60
 agacagcgag accctagata cagagcaaag atacaattcc gtccttgaat aatgattcat 120
 tgatatcggc gctacagcag aggccaaagac ggttggttgg atactggcca tttgccgaca 180
 gcttcgcgc attggccacc cccctgtcac tatacaaagg atcaaggcca tcgcatcgcc 240
 atctcttctg caagcacgag ccctagaatc aactaaacga tgcattgaaca ctcaaatcg 300
 caatcgattc ccaaagactt tccagtacgg gacgacctgg acgagacgaa acggtaccta 360
 gaacgcctgg aaaccagga tgacgggctc gggcagatca tggaggtggc tgcaacgcca 420
 gaagaggagc gccgcgtggt tcgcaagctg gatattgatg ttgttacggc ccctgttcta 480
 ttatgaagcg agctcgttca gtactgactg actgcttgct tcattgttaga cttataacctg 540
 ttatgggttt atgctacatg atgcagtaca tggacaaact ggccctaagt caggcaactc 600
 tgttcaacct tcgcgaagac ctctgacgtt tgatttaatc agctgttgac gatctcctgg 660
 ccacgctaac tggcgactag aacctccagg gtaccgatta ttcttgact tccgccgtct 720
 ttacttttgg atatctagga tggagttggc ccagcagcta cctcatggct cgccttccaa 780
 tcggcaaata tatcacagcc agcgttctgg cgtggggagg ggcgttgatg tgcattgcgg 840
 cgacgaagaa ctttggtggt cttatgacgg cgaggttttt tctaggggtc ggcgaggctt 900

ccatcgcccc cggcttcgcc ctgattactg ggatgttgta caagagagag gagcagccgg 960
cacggttaagg cttccgctcc cttattttac aggggctggg aagggagaag tattgttatg 1020
catttctaac acctgcgtcg actccagaca agccgcctgg ttcctgggca actgcgttgc 1080
aaccatcatt ggaggagtca tcgcctatgc aatcgggaca gtcgaaggtg ttgcagtaaa 1140
cagctggcag cttctctttc ttgctcttgg aaccatcacg accgggatgg tcctgtggct 1200
cgtatttcta ctgcccgatt cgcccaagaa ggtgatcttt ttgacaaaaa aggagcaggc 1260
gatcgttgtc cagcgcacca tggcaaacaa gaccggtatg atggataatg agtctttcat 1320
gctcggtaaa gcttggcaag cccttcgaga tcccagacc tggtttctag tgctgtacac 1380
cttctgcgtc aacttgtgga acggcggcgt caccagtga atgtcttccc tgacctcggc 1440
tttctttatc gtgacagtct gtgctgatac ttccggctc cagttctcgt cgatcattat 1500
caacagtttc gggtttagcc agctcaggtc tctccttatg cagatgccca tgggcgggtg 1560
gcaggtggta tttctggtec tcagcgtgc tgttgccacc tggttccctc ggactcgcac 1620
acttatgatg atattcaatg ttacagtatc gatggtgggc atgctgctcg tctggcagct 1680
ggaccggat caccagatcg gccgcattgg cggtttagca ttgggcgctg tcttcgccgt 1740
caacattccg ttgtcgtga gtgtgatcag caccaatgtc gccgggttca cgaaacgtag 1800
tgtgacaagc gcgctgctct ttgtcgata ttgtatggga aatataatcg ggcccaact 1860
cttctgact tcagaggaac cagcataccc tgtaagttgg gcttgttctc actgctataa 1920
tccattaaag aggggtgggaa ctaatagaga caaattgata gacagggatg aaagcggcta 1980
tttccggcct ggcgctgggt gcattcttcc tcaattgcct gttatgctac tatacttttg 2040
aaaatcgccg ccgcgatgcc aaatacgggc cgccgactca actgaccgag gaggaggagc 2100
ggactcacgc attatcaaac aagacggact tagagattga gagcttccga tatttgattt 2160
gagggatagc ttaaaccatg gcgcttgga ggtgttataa agattagagc ctgtggcata 2220
gggacgtcca tcatggacaa ccatgatagc gacgtgcttc aattaaatct cactgtagtg 2280
cactgaggca gcgcccttta cccttgttcc ttattatat gcgacgaagt tttatgttca 2340
acgccatact tatttgttcc ttaaggattt aacagatggg ctgctggacc tggggaagcc 2400
tcgtccggac agacaagatc cagaccgcgg agaattagta acccacaggg cgattaggag 2460
ggaaaaggaa atgtcgtcta cttgtagcat gaagttccat ggattgctag ttgatcatgc 2520

gttggcttca atgctggact ttcccttctc gtacttgctc aatagtatct ggtttcaacc 2580
 gaccatcagt caaggaatat atgaagccta tgaagcttag ccctataaga cgtaaccata 2640
 aagggtgtca aggggtgtaat tgaaagttct agaataattc ttatcacaaa tcaatccatt 2700
 gactgcagct tgcagcttgc tgggtgtaacc aggcgaggcc tttggggcag cccctaacat 2760
 ctattcgtct catcgtttagc ctctggctat tcatcctgcc caattatagg tctggacata 2820
 atgttgccg ccgctgcccc tggcttccat cagcagcgt gcaatgacag aatattctta 2880
 tttggagagc gaacaatgct tttaaaggca gcaagtgtag ctcgccgatt tgaataaggc 2940
 acggcaagtt cgcaactggt gcaagggccc tgtatccctc gccgctctaa tagagagccc 3000
 tggacgacca tgaggaggtc gaccgctaga taatgttgag caaaagcagc agtacggggt 3060
 atgctgggaa ggaagctttg attgaaatgc gcagtattct acaaaattca aaggcttgcc 3120
 ccgtcatcat gcgtatcttt gccatagcag cttgctccag agtcgtgtag agcactaatc 3180
 aatgatttaa tcacacataa gogttgcaat tcattatatg tccactcgtt agaattatgc 3240
 attaattaca tgatatacat tcacgcgggg cagggtgac cccacagggc atggcacctg 3300
 gcgctctcga ggatattctc tgtatgtccc atttcttctt cgatctcgtt gcttgtctct 3360
 tcaccgtcct tagtattgac cagactcgaa gcgccaacct tgtccgacgg aatatagtgg 3420
 cgaaacagtt ccggcaggac cgagatgcag gtaggttgc gctccctgca gccattcatc 3480
 agggagatat cgaaagcttc gtctttaccc gtcgcgacat ccagcagcac attcctcgct 3540
 cctgtccgtg tcaaggcgta ggcaaaggta catattggcg ctcccagta aaagaccgct 3600
 cgctggcccc gtggcagtcg atcgattggc gccttgcca gtccaacata ccggtcggcc 3660
 gggatgacgg tctcgtcgac gatgaactgc gtttcaaatt cttgatccca ggtctccgcg 3720
 cagaggccga cccaaagcac atcccatgaa agaccgtacg gagcgcccggt cgagtccgtc 3780
 gtcttcgtca agcgccgaac cgctcggca acagcaacca tttgttcacg gatcgagagg 3840
 tcccagtcaa catcgtcttc caaaattaag gcggtttcaa aatccgactg cagcagctat 3900
 ttaataagat cgagatgcgc gacccaagca acggccgagc catgattggg gtgtcgagcg 3960
 tcttcggggc ccaggccggc aaacgcgtcg atgatttcgg gaggaacggg gggctgcggt 4020
 gggatctgga tatcgaggcc ggtcaactgc gcggctgctt gcagccccgt cgtgcgccag 4080
 gaaggaaatg gcgacagtgc gagaatcgtc tcaaactaga tcgaggtcgg agccagcgtc 4140

agcagaggcc gtccatgaca agacgatcga tcacacctca cccctagagt cgagtttcca 4200
 gcgccggtca atggcgggtcg ggtgaaagag ttttcagcag tactgttgtc ggcggagagc 4260
 gtatgagatt gcgcaatgac cctaggccgc tgatatgacg agagaagata gaccatccat 4320
 agcaggggtga tgggtgggccc aaggccgaga taccatcgcc agcggaccgc aaatgcccaa 4380
 gcagcagccg atcggggacat cacaagctc acgagggagg ttggggccgga gggtttggac 4440
 gggcacacgc tgggaagagg atatggtata gtagatgacg atctacacta tcttcggccc 4500
 ccaattcggg aaatgggaca gccagttaga gccaaagctt tgcccacatg tccaccaaga 4560
 cttcttggcg atgcaggcta atacggctta ggggcaaaat aaggtaaaga taaacatcca 4620
 acgaggggaag aatgcacgac ggtcaaggga aaaggctttt gtcccgctg gagtgacgta 4680
 tataaggctc ccggtggtgc cactttctct atcgaaactc tgttctaaca tgctgatccg 4740
 gactctaacy cacgcacaca gaacaggcca tggtagaaaa agcaccttta ctcgatcga 4800
 ctggtgtatt ttcggataga cggtcagcca ccttaaaaag ggtgtcttat aaccagcgag 4860
 caaagacgcc atgtcttgtt tattcgacct gcacaagaag ggactctga aacaggctct 4920
 ccagccacaa tctggccgca gcctgagtgg agcatgacca gctatggctg gctgatgatt 4980
 gaacatggcc aactaactag ctcttgctcc accgccgact ggcttctggg tggacgcac 5040
 ggagcacaa ggactaccac gtcagtgcg agattgataa tgcccgatg tgtgaaactc 5100
 gtaacctggt caccgcagta accgcctgga atggttttat ccagttata ggcaaaagg 5160
 cgacagatca gacagcccgc tagaatcgtc gcgatcgccc acgccacaat gacagccatt 5220
 gttgcgtatg aagaaatcac aagccaccgg acagggaga tgccggagga caagaagaga 5280
 atgctgatct tgggtgcagct aagactcagc acccacacaa attgcagcgg gacgatgagt 5340
 ttcgacacgg ttattatggg ctctgtacct catctagggt ctgccacgat gacgctgacg 5400
 tggtcgtaac cgatacctgc tcggaaaacg ccagtgtatc taatgcattg gagggcgaca 5460
 gagaatgtct aaccggccca gatagtcagt taattgaaag cgagtgtgc ggagtgggtt 5520
 gccatacgca tgccataata ataagataat cgctgagagt ccatttcttg cgcgcgatct 5580
 tgtggccagc agccggagta gaacgncccg tattgcaagg atggagaaga cgaaggagca 5640
 gccgagcacg gagcgtggg cgtgcgttct gatggggaag ttgaccgtca tagtgacagc 5700
 gcaagcccc ttaacaaagg atgcaaggct gatgaactgg taatataatg gcccttcct 5760

aaagtcttga cctggccggg agtgagacgg ttatctggtg gaaaggttca attccggggg 5820
 ccaaggtcag ttaaatacgc gaaaggactt gcccttggac gtagtggcca aaaagcccc 5880
 aaagaatcgc agctgtgggc gtcgggaaga tgagatgagg cccgcttttt ccgtcctcag 5940
 catgtagcca tgcggttgga gttgacgctg aggtgtcaga agctgaaact gaaagttttg 6000
 tctgttttat acatcagaag ttcgcaaaaa tgatccttgt tctgtttatg tagagctcct 6060
 gcatcgtttc tgcacggaaa taagagccat cacacaagct ataagcttcg aaaaagaggg 6120
 tttgtcaaac atgtcagatt attgagcgtc cggcttggga tggggggagg agagtgttg 6180
 aattgcgcgc ttgaacttaa aaatgcaggg ccactttga tacgtcttcc tattggctga 6240
 gacaccttca cccgagtcag tctccgacgg tggcttcttg ttagcggctc ggttgatgtg 6300
 tcagtgggtt aacttaaggg ccagaagcc ggattccggg gccgcttccc cagccgttgg 6360
 acgggacggg gctggccggc aataccagta aatggagtcc acaggtcaga gtcaaataca 6420
 ccagaacag ctttgttctt ggctattgcc tagcttgtag tttggactca acaccgtctc 6480
 tttgccaaga ctttactctc cagccgagtc agcggcctga tttttagtct gcctggacta 6540
 gctgctaact gatatagggg cgccgccgca gtggggccct tgggtatcat tataaataga 6600
 gcgcacgaac tgacagtga aagatactgc gcatttcctt ttcttgctaa tgcttgaat 6660
 tctaaatcag caaaacgagc gcacggactt atacagcaga ctggtcttaa tagtttggcc 6720
 tagtgtctcc cggagaggat tgctttttct tcgcttctgt catctgactc aacatctaga 6780
 atccctgaaa tcctctgaca atctgcgtgg gatgtctcct ggttgactcc cacgtctca 6840
 aagctcagaa cggaatagac cagacaagcg cgacttctac ttgaaaccct tcctatgccc 6900
 gatgcctgga ccaattagag cgtggggccat aaaactaaga aacaccgttt acacgtgtta 6960
 acgcccagaa tgaacctgac tgcactcagg tcgctgagaa catgacctag ttggtgacct 7020
 cagccttggc tagacaacaa ttggcacaat ttgcaacgat caagccccgg acttactttt 7080
 ttggggagca agcacgaaca aattccaaaa atcaatgatt cgccaccctt tttcgggtaca 7140
 acaccgcttt tttgaaataa cttgtacctg aacaaaaatt gcaaaacctt ggtacctgt 7200
 cccgaaggat atttatattt acctctcaa cccatgggtt tcatttcctt atatttctcc 7260
 gctgttttct cttaggtcaa gattgtaacg cataacttcc tgctgtacc aaacttacc 7320
 ttttctcccc ggtctcgaaa aagaaatata atatcttggt tgggtgaac caagagtcca 7380

attccattct aacgtttctc cgccttttagc tgggtttcca ttgtaggctg tttcatgttc 7440
 tatcagttcc atagtgtata gacgtattaa tttccattac attcgatata cttttcaata 7500
 tatttatcag tcgttttata atcataatct atcttatatt acattaatct ttatcatcat 7560
 acttcctatc tattcttat 7579

<210> 5928
 <211> 4523
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5928

gctttttaca ttttaagcac agttcctgtg atgtcttaag tatgaatata gtaagggttg 60
 catccattgt gcatggacaa gtcagcgtaa tggtgtatat tacatgggtt ggctgttgct 120
 gccctgaggc atcccttgca agctatacta gtagttaaca cagcctaata tgcagggatt 180
 tatccagcag cacatccagc aggctggtga tggccagggtg attatatatg ctaatatcaa 240
 gagccagggt gatgctatta gctataagct gggctgtgag gtatactata gtactattct 300
 ggactagata ggcatgatac aacagttcta gagcagccag acctgtatta ttgctgcgac 360
 aagcacctta gacataggca tcaacatccc taatatctgg tgtatgatct atctagggtca 420
 gccatggata ctgcttaact atagccagga gagtgggcat gcagggcatg atggcttggc 480
 aagtaaggct gttattatgc acccccaggg ctgggatgac cttgatctgt aggttgacca 540
 ggtattagat actgagttta agcgcgtgca ggcgtacatg gaggttggtg agggggtgga 600
 gtgttggttg tatgtccttg accagtacct ggacaggata gttgacagat atatatacca 660
 gcagtgccag gatcaggatc ctgacaagct actatgcaat gcctgctggc cagatgggca 720
 ggacaagcaa accctaatac tattactatt actgtcgcca gcagtatcag cagcagaata 780
 taatgtcaat atgagtaact agcctaataa tcccccaat gcacaaaata ggctgttct 840
 gctcaattat tgatcttaat ctatgtctaa aacctcagct gtattgatcc tgtcccaagt 900
 actgtgatct gcagcagtag cacccttatt caaggcactg gtgcctcctg cagctgtttt 960
 aatagtccca gcagatagca taataccagt ataataccag catactacta tctagtagca 1020
 gacagctact gtgcagtggg gcttgatca caagttcctt aagcaagagg cccggtaatg 1080
 gctgtaccaa tactatgtct gtatagtagc caggtatgac agtaaccaca agctgtacaa 1140

ctgctgtcac cctaatagcc agactactaa acagtagata gtacagctgt gatcccagat 1200
 caactatata ctattctact gttatttcta gtataggatg ccatagttag tctaccaggg 1260
 ctggcaggcc aggcaggagt atccatggca caggggtgctg atcttaacta ttgcggggat 1320
 gctgtacagg ccttacaggg ctccaggtgca gtccgcctgg cagtgtatt tagctggatg 1380
 gatggtcaag cagtagatag tatatatata gaaggcgcag tgccaggtta atacctatgt 1440
 agtagatata caggagggtca ccttggtagt ggcctttctc aggcaggtaa tagctgacag 1500
 acagggcatg gagatgcagg ctgtattctg ctggttacag caggtttgtc aggagtacaa 1560
 agcagcataa tctgacagta atatattaag aatcagttat gtggagagtc atagcagatt 1620
 tgttgcttta ttatatgtgt aggcagatag cagaatagaa ttataggcaa gaggaacata 1680
 gaccaagctt gcaagtacag gctgccagct aaaccatgag agctaattaa caccatgcat 1740
 ggtgctggcg atgtgttggc tatgtgtcca ggtcatgcaa acctggcaga cgaactcaag 1800
 ccagcttggc ctcatacaag ccagttgtca gtataaacag tgtcatgact aatagatggc 1860
 accaggcttg atacaggcat tgcactgcat gacctatctc atgctactag acagtcagct 1920
 caggctgtgc tgtgccttaa agcttggtg tacctgcagt attaatatca gtattatacc 1980
 agcagtataa tagtatcaag ccagtactta ggagatatat atactacaag taggcaagga 2040
 tcatagttaa ctacattatt attgcataac tatataggag tattattaat tattacaaac 2100
 aactaccag ggtgtataa agaaacaaaa tctatactat attcaccctaa gcacagtgtc 2160
 atgaccttac ttattattat tattactgtc tctattattg ttattgttat tattattgtt 2220
 atcatcctcc tctatattgt ggttgtcatt gttgtcctcc tccaggaagt caagattatt 2280
 gtcagcactg gcagccaggg tattgttgaa cttgtccagg cccaccagca tctcagatac 2340
 tgggactaga gtaaagttct tgagcaagca gatcttattc tgcagctgaa aggtgtggta 2400
 tagtactaac agctgtacct agtaccagaa ctggtatatt tcaagcacag taccagcact 2460
 atatctaccc cctgcaataa cccttgctt ctgtttatta gccttctgca gctcggcatc 2520
 gatgtcgaaa cagaactcga ggggttgatg ggcggcctcc tttgtccggg gcatctgcgc 2580
 cagggacaaa gcctgtcgga ccaggcttgt ggggagggga atatactttt tattcccttc 2640
 agtgcaccaa gtacaatgct ttgcctggta atgcttcagc acacagacag ccagaccaac 2700
 caccttgcca gtggctgtgt caaggacaaa gaggtttttt gcacagtgga cgcaggggtg 2760

atcagtaata acaggggtcag ggtctcagac tcaggctgca gcctggatag ccttctaggt 2820
 ctgggtcagca tgcattgccag tatacaggct gagtactcac cttccttgct aggtatttgt 2880
 ttgtacaggt gtgttgctgg cgtgttgaca gggctgtgat attgttatcc ttgcttgcaa 2940
 caagagatta ggcataatac tttcttcaag tattattgac aataatagac acaggcttgc 3000
 tgatggggtg gaggctaatt tctatgatta gggagctggg tttatcactg ttactgatag 3060
 tattgatatg ctgggtcatct acattgtaac tattagtagt cttataataa ggcttctgct 3120
 gattctggct actattgctg ttgtgggttac tgtctgtgtt gctgtccgct tcctggctgt 3180
 tgttactgtt ggtgtcattg ttgttggtgt tgttggtgtt gttgttggtt ttgttggtgt 3240
 tgttggtgtt gttgttggtt ttgttggtgg agttgttggt gtctactgct ggctttgcca 3300
 tcacaagctt atctatactg tccaagggag cagggcactg aggcagagct gttatcaggc 3360
 tggcctgcag cacatcgctc cgtcccatc actgattaca gtagtgtctc ctctttgact 3420
 ttgcattgac aatgggttgt gtcaggccgg gggggctcgg ggggctcgtg aggtcggctg 3480
 agcggcggcg aatcagggct tggggggcag aggtggccat ttcggtgcaa caaggttgtt 3540
 gggaggatga aggtgatggt tggagaggtg atcaagcagc caaaagggag gatagtgcaa 3600
 ggtagatgat tagagaagat taagcaagta gtgcgatcaa tgggagccca tgatgcaagc 3660
 aagcaacaac agtaatagaa caagtaatat ataagataag agtaataggc agagggaata 3720
 agtaacacag caagagagaa gagtaagagg aaaagaaaaa agcaagtatg aaggagatt 3780
 atacaatata tattgtagtg aattaagcaa gctgtattat aatgcaatac taaagctata 3840
 ttatagtaat acccacatcc ccagcaacag tattataata agcttattta ctatgcaacc 3900
 aacaagctgt gtacgcgcca gtaaggacaa gcaatatata atacttctga tcatgcaaag 3960
 gtggttcctg acagtgcaag agcataatgc taacatcaat gctactgtat gacaatgcaa 4020
 caacggcaaa gcaatgacgg caaagcaaca acaacatgac aacaacagag ctctgactcc 4080
 agacaaacat gctgcaaaat atagacaata ttgtattgct gtcagctact ggctgattga 4140
 actgcagagg ttctgcttat taataatata atatattgtc atgcttgctg gcatgatgtg 4200
 atcacaatgc tggcaatatg aagagaagat tataattgtc aaggcatagc ttggttggtg 4260
 gtattatata tatattataa atgcttgcat gaactggcat cagcagattt agaattattg 4320
 gcacaatgct gggggtgctc cggggtgaca ccagcatgtt gtgaacaagg catagctgag 4380

ggttgtcaca gttgtaacat atagacagga ggtattggcc agcagatcag catcttattt 4440
agcttaggggt ataatatgta agtagacaat gccagctcag acaagctttg tcaagtattg 4500
taagattagg cattatgatg gat 4523

<210> 5929
<211> 2089
<212> DNA
<213> *Aspergillus nidulans*

<400> 5929

gccattgata aggaggattg atttttccat tgtgcagagt agcaatgaag gtttacggcc 60
gattggtttt ggggggtaga ttgttattta gtccttgtct ctggacttgg agtataaaat 120
tgcggggaaa cggataaggg aaagtgggtg cagaacgctc tgccggctgc aacagagatt 180
gccccagtca aaacggcata agatgaaggt tgcagtatgg ggcgggtcaaa attgaaagac 240
atcaattgat ctccaggtag tgtttcttct aagtaacctt ctagaagcat taggaccagt 300
caattccttg tcgcgccttc tcaagcgcta tggataaac cgttttttta gtatattgac 360
tcggttatca gcggcctgct ggatgatctc cactccacct catcatgaac ctccctcttg 420
actctttccc ctctctcttc cactcctcct ccccttcctc ctaccataa tagaatacac 480
cgcgtgcaag aaatggactg ccccatcccg caaaccgagc ttgacgagat ctatgctttc 540
gcaaccgatc tcgcccgtaa agcggggccag ttattgcttg agcgcgtcaa cgatcgcaac 600
tctgagcagg tctacgccga gaaagagaat gcagtagact tggtgacgca gactgacgag 660
ggtatggcct cttcaagggt acagcatttt tatccaagat cgaactgatg aaacgaagat 720
gtcgagtcac taatcaaaac agccatacag accaaatacc cagcccacaa attcctcggc 780
gaggaaagct acgctaaggg acagagcagg gaataacctga tcgatgagca gccgacctgg 840
tgtgttgatc cattagacgg tacgctcctt tgctgcctcc aggatgcaat gcctaacctg 900
cttatacagg aactgtaaac ttcacccacg cttttcccat gttctgcgtc tctatcggct 960
ttatcgtaaa cactaccct gtaatcggag tcatctacgc gccaatgcta aaccagctct 1020
tctcgtcatg cctcaaccgc ggcgcattgg tgaacgaaat gcaacaactc ccgctcatcc 1080
gcaaaccgtc tatccacact ctaccagcaa ctgcaccatc gaagtgtatc tttgcatgcg 1140
agtggggaaa ggatcggcgc gatattccag acggtactct gcaaaggaag attgagagtt 1200

ttgtgaatat ggcggctgaa cggggatctc gaggtgggaa gggaggcatg gtgcatgggg 1260
 tgccggagcct ggggagtgcg acgatggacc tcgcatacac ggctatgggc tctgtggaca 1320
 tctggtggga gggaggctgt tgggagtggg gagtccacca tagcagtagc agttgtgggt 1380
 gctccagatg attaatgaca gctcagggat gtggcagccg gtattgcaat cctgcttgaa 1440
 gctgggggggt tggttactgc ggcaaaccg ccggaggaca tagagggggc gattgagccg 1500
 gtgaagctag gcagtcggtt atatctggct attcggtagt cctctagatt catccttttg 1560
 cttgatactg acttgttcta cagaccgcc ggaccctcag aaacagaaac aggtcgagag 1620
 acacaagaac gaacagttcg agaagtctgg cgccgcgtcc gccagctaga ctatgaaaga 1680
 ccgacgagac aatcatagac taataataga actctagaca atgcttatat gattctatct 1740
 ctataatgac agtctacaaa tttgacttcg accgctcagc aatcgtctgc gcaacaaacg 1800
 cctgcacctt ctccactaac cccggctcac taactacatc tttcccggtc cagagcctcg 1860
 cctgctcgag accctgccag atgagcgct ccgagccaag gataaccttc caccgcgcat 1920
 cctgggcgat ctgcgcaata tccgtccagg gaagaggggtg gtagcacatc tccaggataa 1980
 ctccctggtc cttctcatgc gtctgccgat tcaggaacac gcgcagcgtc tcgcgagctc 2040
 tgatcctagt attctatagt gtcacctaaa tcgtatgtgt atatacata 2089

<210> 5930
 <211> 15457
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5930

gactctcgtc cgtcctcagt tcattggctg tcgtagacag aatggagaga atcaagtcct 60
 tccaacatgg tttctgcaga cggctggttct cgacgcagta tatctgcaat ccataaaaca 120
 accttctcgt ctagtttcgg tccaaccggg cgcaggcgcg aagtgattag ttcttgcgga 180
 agaaacgacg tcacattagt ctctgcgttt tctcgggcct gccgaagcgg ataactcagg 240
 tatagcaagg cctgcgctct agtcatagcc acataaagca gccgtctctc ttcgtcggag 300
 tcttctgctc gtgagtgcgg gataataccc tcgtaagctg cgggaataaa caccacgggc 360
 cactctaggc cttttgctgc atggattgtc gagatggtaa ctttctcttg cgcctgggtc 420
 tccccttcag tctcttcttt cggctggacc tcggttgata aagccacatt ggctaggaat 480

ctggacaagg cttcttcgcc aggatgcgac tcttgctgag ttaggccagc aatttcagga 540
 agattctcat cctgttcaact ttcacggcc gcagttgcat cgtctgcctg gctcattagt 600
 tctccacgt ttgccatct gttttcatca tttgacccat aagtcgccgt aatgaattcg 660
 cgaaaagaga gtcttttcat cacgatctcc agcagccttc gaggtgccga tctgtcgacg 720
 cactggcgga gcttctccct agagtattca atgaggccaa ctagactgga gagcccttgg 780
 ttagtaggct tcgacatggc tttctcagtc gacctgcgac cttgcgctac atctttgatg 840
 tagtcccaca gcggtttgcc agctttctcg gccccgttta agagcatctt aacggtctcc 900
 tctccaattt tctcgaagg aacgttgatg atacgtagaa gtgcttccga gttttcggga 960
 tgacttataa ctcgtaaata gtctaggaga agcttgacct cgactcgatc aaagaatctt 1020
 tgcccaccaa ccattcgata gggaaacgca tgtttcccca tggcggactc gatctgccgt 1080
 gacagcgacg cagatctgag tagaatggcg aaatcggaat acttcaataa ctttcccgtt 1140
 agaactatgc accttttgat ctcaagtacc agccactgag cttcgtcttc ggcagagggc 1200
 agcttgcgca gtacaggcag cgtgccaaag gtgtgcgttg gctgcaactt ttttgctggc 1260
 ctagataaat cttgctcgat cacgtcttgc gcagacttga ggatcgagcc cgatgaacgg 1320
 tagttatcct caaaagtac aacctctgta tttctgtata gccgctgcat ccgtttgagg 1380
 ttctcgatct ccgcggaacg aaatccgtag atgctttgat ctggatcacc aacgaccgta 1440
 atgcgcctgt tccaagacgc aagaaggttc atgaggtcgt actggatctg atttgtgtcc 1500
 tgaaattcat ccaccaagac cacctgtacg ttggatacac actttgggtg ttttcgcagc 1560
 aattccgcg ctcgtagcaa taggtcatcg taatcgagca aattcgatgt tgcgagctca 1620
 ctctcgact cccgtatatac ttggacgaac tcgcgatgct ctagaagctt gctaactctg 1680
 ttctgctttg ccgctacatc atcgggagat acgccgtgcg ccttctgatg cgatatacga 1740
 gctctcgag tgttgggttg aattccaagc tgcagccgt ttacgattct ctgcaggttt 1800
 tttagcataa catcgccaac accccaccag agacatcagc taaccgaat aatcgctagc 1860
 gaatcccctg aatctgcaat tccaaacccc ttctgcagcc ctatcaaagc cccgtacctc 1920
 accaagtatc gtcgacagat cgaatgaaac gttcctaaga tgagccttga ctgtacgtga 1980
 tcacctacca atttggccag ccgctctcgc atttcccagc tggccttgat ggtgaatgtg 2040
 caacagataa catcttgcg gcgatatccg tcatgagcga ggaggtacgc gacgcgcgag 2100

gtcaacgttt tggctcttcc cgaacctgga ggagcaagga cttgtaaaat cggcgcggat 2160
 gaggtgaccg cggttctctg tgcggagttc aagccatcta ggatggggtc aaggggatcc 2220
 atgagggcat ttggacgcgc agcgcgctgt ggattccatg ttcttttatac tttccggcga 2280
 cgcgctatat cacgaagtca cgtgattcat cttacacttt gtgtgcaaga aatcaaagct 2340
 tttatgagat ttttttcaa tgtcgttagt ataggtatct tgataattgt ataagtatat 2400
 aagaagttgt ctctctacct aataggggtgt gactgttggg taatgatcaa tgaatggtcg 2460
 aggctgacct gagatgtaag cacggggccag tcgttgctat tataaatcgg caatcatctc 2520
 aacccaaga cacttcttac cttcaggtaa atccttttca ctgtttctat ctgcccctca 2580
 tgggctgggt aggcgttgcc atagtcgtcg ccactacatg tttcctcctc taccgacacc 2640
 ctccggcgac ctggttcccc gagccgcagc cacctgtcgc cgatcaagcc cgcaagccca 2700
 cctccgaaaa ggaagagggg aaagcgaagg agaaaaacga agagaactct cccacccttc 2760
 agtcaaatac gcaaccaact ctactaaagg atgggcccgt tgaagaggtc cagacaactt 2820
 cgaaagcgtc tgcgtcaacc gtccccgtcc tagacgtccc ctcttttcag tggaatgaca 2880
 gcgcaagcga caaggacgag aacaccctc atatagcgca gcaagataca gcacgacaga 2940
 gtaagacacc gagttcatcg gtgactccat cctccacacc cacgtctaca gaaatgatgg 3000
 caaatccgag cgtagagcag ccgcccgtcg taaatgacgc cgcctctcta atgcccctc 3060
 cccgcctcc ttcacgcata caacaatcaa caaccaaag acaaccaaga ccacaagcgc 3120
 agaatatgct tgctccacca cctggccgac tcctcgcacc gcgaccaggc agcggtgcca 3180
 gtctgctcag tccaccccc tgcacggcat caacctgcg agtcccacca ggcattgcgtc 3240
 cgggcactac aaactccaat tccaactctc tctccccgaa ctctgtgacc ctcaaaccgc 3300
 tcaaaaaggc gtctcaacgc gctgttctcg aaccggatt ctcccactc gactgggcag 3360
 ccctaacctc aaacccaaac cacaaactac gcggcgcgaa tctcccgga actctaataa 3420
 aggtcacacc gtcgatgctg aaagcgcaga atggccgga agggacagat gcgtggacat 3480
 catatcaggg aaaagtctat aatatctcac cgtatttgcc gtttcatcct ggcggaagg 3540
 gggagctgtt aagaggagcc gggaaggatt caggaaagct gtttctggag attcatccgt 3600
 gggtaattg ggatgcgatt ctgggggagt gtttggttg tttttggtt tcagagaatg 3660
 aagctgtggc ggaaaatcga cttgatgcaa tggactgagc tgataatggg atgggtctcg 3720

cggaattatc tctcgataga gcctttaata ccagatgtgt atatagatag atagccagat 3780
 atacagagct atgatacccc agtgagtagc gatcttgaat atctgtggtg gcttattgat 3840
 tgtcttcgag tcggtagctt gccctgaagg catcgatgcc gctctgcttc atatagtagt 3900
 aggtaggtgg ctatttgcga ttgaaagca aaattaacat tgttgttaag gatttttttt 3960
 atttaccgtg gtgcttgaga ttgttgtct ggataatgcc aaggaagcaa gaaacacacg 4020
 cacatatatc atggtctgtg ccttgcttca agcaaaccgg atcaccgtct tgagaagatt 4080
 atgattacgg actacgcagt acaatagaag gatgatgata actcttatca cagttcatca 4140
 tgacattcaa gaagggattt ttgcgaaaat gtaagcaaat gggcctggca atctaaatat 4200
 agaccatata tatatacatg ttctgaccag cagggataaa tggtaagact cattctaaga 4260
 agtttataga caaaaatcac gcccatctcc caagaagcgc catcaagagg gcgcctaaac 4320
 acagaagacc gaacgcggca agcacattct taagcggggc tctgcgcac gaggtgctga 4380
 acatgaactc gtgggccatc agctcgacaa gagcgggtga gatcaagata ccagctgaga 4440
 ttgaatcgaa cacaccattg acgaggagag tgggtgagcc ttcgggagga taggactggc 4500
 gaacgcccag gccgatagct atggcaattg gtgtggagat tgcgtaacc atacctagaa 4560
 agtatggggt ccagcgtttt gagcggggcc atgggattgt ggccagtcga gaacccaaac 4620
 ccagaccctc aaatgtttgg tgaaagacca gaacgatgta aagagtgggt aactcaggcc 4680
 cagacactgc cagggttaag ccgatgaaga tcgaatggaa gatgataccg aactccagga 4740
 tgaagacgga ggtcagctga gccatgtact cattaagatc aacgcccttc tcagctagtt 4800
 cgaggtcacg gtgttctcga gaatggccaa ggtggtcctc gccaggcatg tgatggttta 4860
 cgtcgttcga cgatagctca gtgcccttga gctcaccggc gtggccatga gcatgggagt 4920
 ggtcgtctgt agagtcattg tcgtgactgt ggccttcacc gaaacgcgaa aatcgtataa 4980
 ccatcatctc gacaaagaat agaaccacga ttgtcataag gatgattccc tcagcccagg 5040
 aataatcagt gatggggccg ctgagacact catttcgaag ggcttcttct gcaggacca 5100
 gcaggtggat gaaagcggtc gcaatgataa ctccagaacc aaagtatttg gcaataaaga 5160
 atgcccagct agggaccttg gagttctgga agctgcgcgc aaagacagga aatagggcgc 5220
 caaaggcgga gccgacaagg atcacgaaaa tagaggagat gcgcacgccc atgcgcccac 5280
 catactcatt acctgtttcg caagttggaa gagaaccatc ttcggctcgg cgaagaagag 5340

catggatcgg attcatcctg gcaagaaaga ttctgatagc agattagggg tgacactccg 5400
cgttgcgag gaccgatata cggggcacaa agagccaatc gactgcctga tgcagacgga 5460
ccctatcgaa tgggtgtcaat tgtcggatac aaatgcaatg caggccgagt cgcaaccacg 5520
tggaattgag accaagacaa atagttcgtg gcaaagggat cggttttctt ggttttcttg 5580
tcgtgcgctt cttataaggt aaaaggatga cccccacgc acggatatgg ctctctataa 5640
gataatgcc gtcgaggcgc tgctttcttg acgtccttaa aagtgtgtta ggcctatcaa 5700
gagcgttgac tcgacacgaa aggtgggtga acaggaacta gcgtgaggac cttcgtgggt 5760
gcaggtcgtg ggatgtaaca caaccgaagc acgaactgcg aaaagaaaac cacactgggg 5820
aaagactgtg aagaaatgag ctgctttgaa gagtagttcc gttagctaga aggcctgtgg 5880
tagctgtaag agctccaagc aagcttatag atgcgaattg aagtgaaggc gggggagagg 5940
agaggttggc tcatggtgcg ggcgctgtga gagaatactt caagcgggct attccgggtg 6000
cagtgggcat tgaggacctt ggaagacaga tccggccctg atgtcgaaga ctttttgagg 6060
accttggggg aaaactgggt ggggtgcaacg ttactgttat tcttcgtttc gttgattgag 6120
tgactacagc tcaggcgacc gcgctaaaac ctcaggcgac cttgaggggtc cgtgcgctca 6180
cctgacctcg cttaaagcga ccgcggtcgt ttgaggtaa tacaacgcac gtaacttgaa 6240
taccacatgc taacaccata ttctaattccc cgtgccccca taatggccaa agtcaagaaa 6300
gaccctaatt acattcgata tactaagatt tcgaaagctg aattagacct tcctgacttc 6360
aaggcagatg tgagcttgcg aaccagtta agaaaccacc atgagtgata tgattaaact 6420
agttgctaac taattcttct tagaatcacg gctacctgat tccacatgtc ggagagattt 6480
actgccgcgc cctgcatgc accaattccg tactgtctgt attactgttc gcctacaact 6540
agttactaac tagttccaga ctcagtttct gaacacaaac aacctcaaga agcacatcag 6600
aaaagcgcac gtggataaat tcgatctctt agagaaagaa ggaggtggcc gtcctactgc 6660
aaaagaggag gatgatgtga ttggtaatta cagcaagatt gttgttgcca gaactagttc 6720
ctaactagtt cagtatttta caaagccgtg ctcgaagcct atgatgcaag acaagaggat 6780
ggggtaggga agcctgagat ccctgccgt cgcgacggaa aggtatgatt attctacaac 6840
gctttaaaac cagttgctaa ctagttatag ataaaccagt cagcagtcaa aaaatacgtt 6900
cgtgagcagg gttattcagt cccttgatg gcatgcaagg aagcagataa ggcaaaagg 6960

atgcagcaat ctaaagtaaa atacattaac tggttactaa ctagtttaga ctgctgtagg 7020
gaggctaate tggatgtttg tgaccacttt gagctctttg agccttacga ggatgaagag 7080
gaggccgaga gtaacgaggt cttttaacta gttgataact agttccacga tttcttaate 7140
agtccagacc caactctcgt cgacgaagca tttttcaag ctctaatttt tcagcctctg 7200
ccttctcctt tcgtattcga acttggtgag cttctagttc aagttgttgt ctttgcagct 7260
caaggttttg aacctgtaaa ttcgctgtag ctgacgctg gaggataggt gttctaaaat 7320
gtagaacctg gggtcagcgg aactaatcca gaactagttt caacaagtaa gaatagcata 7380
ctctgaagaa gacctggatg gtgactgatg tgctgggtga ttataacgag aacttttttag 7440
aagttagaat catcatgaac tagtttcgga ctagtttata gtacgaacct gcttccccgt 7500
gatctagatc ttgaacctcg accacgggaa ctagatcggc gtggaggaat gaatcctgaa 7560
gaactcggcc taaaaagaat actattatct tcaactgaag atagaactag ctcatatcc 7620
tgagccaggc gttttcgttt ccgtgtgcct ggggtaacta gttagtaact agtttaaata 7680
ggtgaaaaat aacttgcctt cagcctgat actattataa aaccgggtat ccatacttgt 7740
gatecgtgat aaatgactag ttccatattg atttcgagca agatattggt caatatcacg 7800
ctggccaagg attcgggagc tagagatate agttgcaate ataactagtt gacaactagt 7860
tcttacctca aggtcgtctc taataacgag tcataagttc ccatataata tgacttataa 7920
tggtcttgct ccaactgcatt cgtaatatte ctaattttct caaatattc tggctttatc 7980
aggctacagg cttttatttaa acctgcagca ataactgaat gccgtttatg cttgcccac 8040
tctgcaatth taggggtttc gtgagctgta taacagttag aactagttcc caactagttg 8100
ggtaagatcc ttaccttcta ataattcaat caggtgaaag tttctcttc gggttgagca 8160
agtaagaagg ctttccatcc gacatctagc tgaagaatga taatcagata gatctccagt 8220
ctgttgaaact agtttagaaa tagttcttag aaaatgaacc cggcataaaa tcagaatatt 8280
cataagctgc catgtccagg gacgtgaag aggatcaagc tcttgcaggt aatggccaag 8340
tctgtatac tagttaataa ctagtctata taataactag gggctgctct tacctgacat 8400
ctgctttgca cacatatctg taataatagc cttagttccc ctattatgta gataaaagaa 8460
ttgtgttgta catccttgga taccagcaat taactggaag acccgtgtaa agaggagttt 8520
atagctaaat gctgactcat gatccatgaa aaccgaagt aaagttataa ctgtagttgt 8580

tagctatgta gaactagtct ataactagtt caggtactta ctcttcccat gctgaggtaa 8640
 aaaggttgca aaaataacct cattaaagtc ccctttaact cgtttataag acatatcaac 8700
 ttcaaatgaa tcaagggatc caaggagctg gatttgctta ttaaateccac aaataatcat 8760
 gacaatatca tggctctgtat agattctgcg aacatattcc taagtatgat tagcagagaa 8820
 ctagtcatga actagtttac atactcgata ttctggatgc cgatccaact cgcagcgtac 8880
 acctgcaagg ccacggcctt taggatatag taaagccttt tcctttgcta taatagctgc 8940
 aaatcggctc tgatttaca agctattatg gatttgtgaa agagtctggc cattatattt 9000
 ttggcaaaac tgtttcagtg ccggactccg tagaaataaa cctaaactag tttagcacat 9060
 gctcaactag ttgtgaacta gctgcactta ctaggggtca agtcaggact ctgcatcttt 9120
 cgaataaggt ccaaaatctc atctagtata agctgcggag gcttatttgg aggaggagga 9180
 ggatgtgaat gaataccacg tgatacaaag actgtataag ggcatctgc aatatttaat 9240
 ggtataaaga aagtaaagt tgtactgcat ctgaatttgt tgatctttcc cggcccttgc 9300
 ggatgggtcaa caccttaca ggactagtta gtaactagtt attcaaagat agaatagaca 9360
 ggtccttacc acagtttgct ctccgagttg tttgttgatc aatcatttca caggcttcat 9420
 tagctacctc tagcggcctt gaaaatagat cttccaataa tgaaatgtca aggttagaag 9480
 ccctgtgaga aaggctatag gtaaaatgct gctgaaatat atctgatgag gcattgatac 9540
 aagcaatata gtaatggctt gctccggaga tatcctgaac tagttcagaa ctagtttcca 9600
 taggttagaa gcaaggacac ttacaggctc agagtgttg cgaagaactg gtttgcaact 9660
 agtttgcat gctaggcatg caacgctatt ttggaaggac ttgcagactg aacggtagag 9720
 gctgctagta attagttagg gactagttag ggactagata tagttaccta taggttgatc 9780
 gagtctctgg ccgctctcgc tgtgatataa tgtcccttct tttttgaaa atagtattga 9840
 acatcgcatc agtaacctct tggtgattca tatccagtaa atctggatgt aaatattcac 9900
 aggctttaat gcctgtacat gtataatgat atttcttgac acagcactgc aaaaatgtag 9960
 aaaagattgt acgtggagtt ccagcaattt tatgggaata ttgaatctaa actagttagt 10020
 aactagtcca tctgataatg acgattaggt ttaatagaac tagttccgac cgagcgggaa 10080
 ctagtttaca ttacttactg atgtgagtgc actgcgaatc ttttcaggct ggctttgatg 10140
 aaaattaatc acatatgcat atccttgtgg atgagtttgt ggatattcag gcaaatgatt 10200

agtatattca attttttgtg ctgagactgg cgaagggtgct cctgttggtta aaggaactgg 10260
 cataggatcc tagaactagt tagaaactgg tatacccaaa atatatttc ctacctcctt 10320
 aacctctacc tcggcctggt ttcgctcatg taaaattcta tcatcatttt catgatatat 10380
 ttcagcttca ttctcattca aagaatcact ctcagatgag attgataaat ttattaagtc 10440
 attaatgacg gtttggtcgt tgaggtaatt gtactcggtta tccattgtaa actagttcaa 10500
 aactaattgg gagaatcata ggttgatatg aggctggatt ggtgtaaagt gattacagag 10560
 tgaaatattt atttttttga gcgaggctgt ctgacctcaa cgatttagcg aagtcacgtg 10620
 agctagcggc ccacaccaag gtcgcctgag gttttagcgc ggtcgctga gctgtaacct 10680
 ggcatacata ctgtcctatg gcacgcctg gcactcacga cgaggggaaa acagcacccc 10740
 ctactgctct aataactgat ctctcacact tggctcattg ctcacccct cctccccatg 10800
 gaggtggata tctccccca aggcggagcc cgccggcgga ctccgcgctt gggtgaaaac 10860
 tctgaccccc cctcaggacc taccacctg actcccctac cccggaactc cctgaagaga 10920
 agggccttat ttttgctgca gaagactcct aatacagctc ctgctgctat accttatata 10980
 ccacaagccc tattaatctg tgatcaggtc agcatggtag tagataacca gctaactctc 11040
 ctcaatgact ggaaactagc aatgacctct ctagctaaag tactagacct aactgtctcc 11100
 tccctacaag gctgtccaag agacctggca cagggacttg cagccagatt tgttaccctt 11160
 acaaagcaag actccctgta gcagattcct cagatgcctg cagttacacc cctacaacca 11220
 cccaggcaga tagaacagct aaattaacct cctactcctg aagcatctaa aggacccccca 11280
 ggcaggcaaa ccttgcaagta tacaacctgg gcatacttaa cagctccaag agctggccag 11340
 gggaactagc aaactattac ccctaaacag tatatgcaag ccaaacaac tatacaacaa 11400
 aagctaaagc agttaaataa gactgactac tatatcttcc tctgcctccc agcctcctcc 11460
 agcctccagg ctattagacc acatggcatc taggtcacc ttgctaggaa ggttctggac 11520
 atgattatac aggtgcaagt aatattaact gggtagttaa ttactataac agaataggga 11580
 aaggctttcc tactattaga gaaggcagca agcctagcta gggatagata ctttgaaatt 11640
 ctaacagagt actatcaggt tattgtcaca ggctatggcc tggagcttgg ttgtcggcca 11700
 tgccctcaac ctagtcttag ataaggtttc tgcaacatca gtatacagcc tcggaattgc 11760
 agcctcgtag cttaggaaaa gagatccgtc ggcattgtagg tccggcggtta tacagggtccg 11820

ggaactcaga agtcctgacg tatgatcaga aaaggttgat aaagggagga gggagatatc 11880
 tgcgctttta tctcttggtt ctttttcttt ctctaagctt gtgatactcg tttatacagg 11940
 acagccagtt gaaaataata ctgcctacgc ccgttacact ggtaactgcg caaacatctt 12000
 aacttgccg gtacgaaaat caaaagactg aaaactccac tgcgaccgga agtatgataa 12060
 aaatcactgc aaaaaacata caacagtagg gattcgcatg tggtcacca ccatactact 12120
 aacctaccgg cgtgtggctt aagtacggct gagcggacgg gaagccctgt tttccacacc 12180
 ctatggtcgt atgtgcttgt tttctcaata atgaagtcaa taataatagg agttaagct 12240
 accccagtag atctaagccg gctatggact ccggccttga gcccgctttg aggacgcaat 12300
 tcagacaaaa ataaagatag aaacaataat aaagaaatgc aaaaccagta atctagatct 12360
 atcccttata ttatctctgc ttttaattata ctttgcaatg tttgactgc agcagcaagc 12420
 tccagtttct actacttaag ccctactagc cccaacaaac aaagttttgg tacacttgaa 12480
 aaacagatgc cttcaattta ttgtaaaggt ataggtagta gcctgtaggt atacctctct 12540
 gttagagaga gtgtcacggc tctgcatgct gtgatcccca gtcaatatca catgactgg 12600
 taaaccccat ttagacatct atttgctatg atcatcttag cactgcgcac aggataagcc 12660
 gtaatcatga tccactatga ctacagagct cactcctgga gcggtgcttg aaatgagcgt 12720
 cgcgctgttg tccagtctta tctgttacac cgggtgatag gaggattcat cttctgcaa 12780
 tcctgactgt atacctgata agttaggctt cgcttcgtaa agactccac aaataatctc 12840
 ttcaaata agagtaaata gcgtataggc atttctgtct tcagacttga gggtttgctc 12900
 tgaaatattc taaagcagat atgatctata gtatacgagt gaggatgtga ctgcctgtt 12960
 gagggaccag tactgaaggc aattcatctg tactctagcc tgcttcaagc ttgttcaagt 13020
 atgggctgcc tcagcctctt ttggcttccc tcaaccttct tctaaccttt cgttttctcc 13080
 gtccttttca cgcaaatecg gtttaaccaag actggcgggc atgactggg ccgcagtga 13140
 agataccatc cgaatcgcta ccgtctacgc cccatcaaag acgcctattg gcaggcttgg 13200
 cacgggctta tgatcaaagt acttcagtgg gtgcatggcg ccactttgt tggaggagac 13260
 tctaggctcc aagtgaactg gattggatat atcgacggag gtttattgag tcaacttagt 13320
 gttcttagcg ataagagaag caaaagtctg agcgctttct gtgcaaatcc caacgaatgt 13380
 ccatatcagc aataccagag taaagtgaat taactactgac gacaaatagc tctactcctg 13440

aacaccatga atcctccgca gatgctcaag cagggttatcc ttcctattga atgccctgca 13500
 cctcgggctg acagggcagg ggtaccggcg aggcctgata tggatgagtc ggatgtggcg 13560
 cagcagctcg gactcacggc cgaaatccct tgtatatgtg catccttccc atctgcattg 13620
 caaaattccg gttggtgtag tttctctagc aagtgaagagg tcagacatcg cagttgaagg 13680
 ggcgtgctg ttcacgaat aatggtagtc cgctgtgtc acgttgctg gcatgaacga 13740
 tgacgtagag ccaggggaacc cagggttctg ggattggctg cttggataat gatattggac 13800
 gtttgattgg actagatatg gcgaggctgt gagcgaaggc cgccacgatt ggtaaattgt 13860
 ttcgcccgtg gcttggagat agcgttgaat ttcgtcatct ctgtcaggtt cctgttcaaa 13920
 cagggatttg ttgggagtta tggaggagtt gcaaggagcg acagagttcg ggacctctat 13980
 aggtagatgg ccgctggttg gggcggcatc taacggttcg tggtaggcca tggcgggtgc 14040
 tatgacaggt gctggtattc gagattgcaa agttgaacga ggctagcaaa cccatggtac 14100
 gggtcgagtg caggctgata tagactgaaa agtcttgtca actgtcgagt gctcttcgtt 14160
 gcgcagagta cccttggttg ccgtctgtca agactcttgc cagccttgcc agttgccaaa 14220
 tgcaatgagc ggctgccaag tctcgttgc agaactctgt caagcgtcaa gagacaagag 14280
 aaaaagtaag caaggcagaa gcggatggtg cctggcatga gtgacaaaaa aggggactct 14340
 ccgacctttc ccaaactgcc acaacgtgct cctttttatt ctcttgggtt ccttgccaca 14400
 gccatgagcg ctaccagccc ctcaagacat cgaccgatat cgtttgtggg gaagtggctg 14460
 gatacgatag aagaaacagc ggcaccacag tccactagct acccggccg caggtcttta 14520
 ccacgttcga gcaaatcaaa cctcactggg tccacactcg ttggccacg ccggcgacaa 14580
 tataccggtg tctctctaga tactcgtcct cgtgtggtct acgtcgagtc cgcgagccct 14640
 agaaagagca gaaaagacgc ctcccgcgcc gtctttcaca gctggaaagc cactcttacc 14700
 acgcggacaa cgagccatga agccttccca gcagcccttc gcgataacct cgagctcgcc 14760
 attgcagagc tcagctcgca tttgtccgcc aactttgcgg tcttaatcga ggcggtctg 14820
 cggaacagcc cgtcaaaggc gctgtctgct cgccagatat gcaaggagat catgagagcg 14880
 gatcattggt accgcgcccc taagaaattc ggctggcagg aatgtgtcgc gcgcgaactt 14940
 tcctcgaacc ccgtgttcca accggtgatc gaatgccgcc agggtagggg taggaataag 15000
 gggatgaagt caactcaccg cagttgatcc ttctcttgcg attacgactc gctccctggc 15060

gggcgccgcy gaattcggtt ccctatccgc tggagctatc aactgaagcg gaatctactg 15120
 agaggcagat ggagcagtcc cgccctgaag gtacagacac gccgcaagct cctcgteccgt 15180
 ctttagcggc gcttgccacc gcgctctgtat tatcatcgac actacccta catectcaac 15240
 ctgcggaaga tccaatcgca aagaaagagg ctttggtatc ctttacggca cttggccctt 15300
 ctcgtagccc cgcgataata tcatacaacg atgcgcctcc accttcgcac cagtctggtg 15360
 agaatgtatt caggcctgac aaggccgacg ataccgaggg aggatcggag ctgcctcgag 15420
 gtcgcggtac gaatgatgag caaaagcacc ctggacg 15457

<210> 5931
 <211> 3780
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5931

gctcttcgcy ttgcaacttg acaccgttgg tacaacaccc cttcttacta gctgattttt 60
 ttgccttggt accctcatgg cggatctgca taaagagtag ctagagggtta taaattagca 120
 ctgatcctag gtacaggggt gaatataact tgcctttcct ttctcatcac acggcaagac 180
 aggcttactc aaattcctac cagtcacagg ggtatgcaca gcgtacggac cacttgaact 240
 agtcacagat tagttagcaa ctagtctgca ttgaatggct gtacttacag gcccttgcca 300
 ttgtcctgat catttccagc ttcaccctca ttgctgcaaa gtagttagt actagttaag 360
 gactagttaa atgggagaag aaacttacia attcttgata cccttagatt gtggtccttg 420
 gacttggtgc tgctatatat tagctaatat actagttaga cttacagaaa cttatgcagc 480
 ttgcttggtc ttcttggtag gagttagggt tgggagaaca gtgcctttaa acaagccttc 540
 atactatgct acttgactag tcaggggacta gtcaccaagt aatctagata ggacttgcct 600
 ttggcctcca tcagttcctt catagtagga ggtctattgt gcaatgtaaa ctccatgccg 660
 tgggagttct tgctcttcaa gtacttgacc aatatgtttc tgttggcaga gggaacctgt 720
 caactagtta ataactagtc agaaactagt atagcagtag actcactgta tgcttaaggc 780
 atccctttac ttggcagtag acttcatatg gatggatc aggcacgcca ttgtcgtcct 840
 gtggactagt cagtaactag gcttaaagct agtcgggtca gcttactatc ttgaaatccg 900
 gcagcataag ctccctgtcc ttaactgcct cgagatagtg acagtactct ggggactttc 960

ggagattggt atcacgaatg cttggcatac taattgttga ctagtcttgg actagtcccc 1020
 agcaaaaagg attggaggag gaggaggaag gtaagagtga gacaaagagc aaaataagag 1080
 cttcaaaggc tatctctaag cagtatgaag gttaagtatc tagttcttga ctagatttaa 1140
 aagagatttc gactagttat gtacctggag tttggatata ggaatgtgtt gtggttaacaa 1200
 aatgtaaggg ggaggaaaga aaaagtcggt caagaggtaa ctctaagtcg gccattcctt 1260
 tttgggaggc gctaaccata aacggcatgg tcaacttaga gttagctcag ggaatttagg 1320
 gagttatctg cgaccacctt ttaggcgaac tttgtcgggt ttaaatacgcg gagcaatata 1380
 ggcgttacct actgatcagc atccccaaaa cccgacgggc cggcatcttg cggctctcac 1440
 aacaaaatga caagagttaa tgaaccaaga ggtggcaact gctaacaatga ataccacaga 1500
 ctggacgtat cccttgaaat agtgctttga cagaggacga cttatttcct tctagtctca 1560
 gcgtgttcag gacatgaaag ccacatatcg gattcgatga tagggagacc atgtacgact 1620
 tggttacgca cagattgcga taactcaaac tgggtgaacg tggcttggat tatggaaact 1680
 aactgacccc acagtagcct ctggggccac gacccttcct gatagctacc ggctcaaata 1740
 tatgcttgaa gctattcaga cggctaaaga taggccata aatcgcccta ctggtcaccg 1800
 gtctagtccc gcttcataac tagaccatga caaaaccgt gacgggtcca aagtgtcgga 1860
 gcatgggttc ctcccctgtc cttgggggtgc ccaggtctta gtcagcatct cattaagtat 1920
 ttagcctagc ttctttgtgg catccgcacc cctgaatacc agactccttc atgcttccac 1980
 acaaagtcag aacctgaaca agtactaggc gagttgcaac cacgaacctg aacctacggg 2040
 cttcgtcgac gctcaggacc cgtagccaaa acccgccaaa ggttaccgc caatgacca 2100
 tcttgcatg gatttttata ttaggctttt gaagttattc actgcacaaa accgctgacg 2160
 gatcaaagtt tctgggttca ttcaattgct ttgttttggg tggcaactca agggttgccc 2220
 aaaccccgcg ccggtgcaga tagtgtatct ataccgacc catcgtgggt tttgggtaga 2280
 cgcgtgacgg ttaacccgag agttttgtca aggtctactc aaaacaatag aatttccgac 2340
 tcagccaaca aatgttatga gccagggacc ctcatgcctc tgctgcataa aacgcacatg 2400
 caatgctggg ctacatcga aaactcgcta tcagaatttc taacatgggt tggagcagca 2460
 gctagaatac cgaagactaa agcaccgagg gactgaaaga aggccagcat acatgaacat 2520
 agtattcccc gctgggtggc tgtggcagcc attctaccaa gcagaaagag acaccctacg 2580

gcagaggaag aatattcaag aaagtcgtta aatgcatgca tggtctgctt atagagagat 2640
ctgtttgctt tatatagttc tagggaagtc tttgagtata cccaagggag aatttgtata 2700
tatgatgttg cataataaca tgcgcctgag ccaccttatg ttttacattc tgatttttat 2760
gcggaatgtg ggatgggaaa ggtccatttg agagattctg tatagttgac tggtgttcta 2820
atctgaagtt acagctaattg atagcattgt tattctgcgc gacggctaaa caccttccca 2880
tcgcggatat cacgggacat cattctgcga gccaggtca tgggtacggt atatggcaac 2940
agctattcaa tatcttgcaa ggggggggtt gcggctctta catatatcga tatgactttt 3000
ggccgtcttg taaagtagcg cccatccaaa ttagagtttc ttacttgcca aaagtacata 3060
gagatcagac ggattgtatc tagatataca aggtcaaagc tttatctcta tgtctggaat 3120
gattactcgc tactgctttc tctccggtat tgatttactc tccatctaag ctgctgcctg 3180
acagtcttga acttcacttt atctgccatc ctatttaaag tagctgggat ctctctcatc 3240
tataccatca tagaatataa gtgtgcaaat tacttgaatg cgtctcattt tttcctggag 3300
ctgccagaac ccgcttgatg gggcctatat tgatgacggc gaactgacta gctttagtgg 3360
cgaactcctt cctttctgag gttgtggtaa agacagatat atctaggggt tctgggtagc 3420
tcaggttctg aatcttctct actgggccct tatgtatcaa aaccacgatg atcattatta 3480
tgcgccccgc taagctggcg ttcacactgt atgctctttc attgtatctc aaatgataaa 3540
atcggctaca ctaagttata tggggactgt catgaacaaa tgccaacgct aggtgacgtt 3600
tttgccagcag atcattagcg cgactcatct tcagccgaga gatgtgacat atcaggaaac 3660
cggttcttct tctgactcac ccgaccacag ctaaaatgta ggataagccg ggaagttgac 3720
gccattcggg cagtcatatc ctaagggaac tcgcactaca tagccgatcc cgacgccata 3780

<210> 5932
<211> 7363
<212> DNA
<213> Aspergillus nidulans
<400> 5932

cgagccgcga cgatgttgcg cttctcgaca agctcgagg aaataacagg agtactgatc 60
tccttgagg cggtgatgat ttccttgata cggggaacac cctgtgtgat actcataccg 120
gcgacaccag caaagtggaa agtcttcagt gtcatttgcg taccgggctc tccaatggac 180

tgcgcaccaa cggcaccac agcgtgtcct ggctcaactt gagctttctt atacttcac 240
 aaactcag caatgaacgt ccgaagcgtc ctctccgtca gctttccagt atggtttaga 300
 cccttgatgg tcctctcgtc agatgggtcg ctgtcaccac ctcgagagat cagtttgtcc 360
 gccttggttt ggacgtattg ttgaattgaa tcaaggaaat cccgagcgtc ctggaactgg 420
 tcaactccat ggtcgcttcg atccatatag tcgagttcag caccattag atcatatcgc 480
 gctacttggc gcgttctttt gagagcatct cctcacatac ttccatgatc tcggcagggg 540
 acaagcttcg ttctcgttc ttatacgtcg tcgtttcagc gtggatgaaa gttcgatcga 600
 agtggaccgg cttggctatg cctccatat cgacgggggc taatttatcg tcaccgtact 660
 ggaattggac gatgccctga gaagaatttc gaacagtgtc atcataacca gtagaaagat 720
 cttctaaaga tttcatcaga cgacgcgaca tgtatccggt ttcagcagtt ttgaccgcag 780
 tatcgaccaa accttcacga ccggacatgg cgtggaagat gaattcgtaa ggaaggagac 840
 ccgaaaagaa actgttccgc acgaaacct tggaaggggg ctgtcgggcg tttttgggga 900
 aatgaggtag agtccggtcc tggaaccgt cctgcacacg ctgaccacca ataatttgtt 960
 gaccgacgag agcgaccatc tgagacacgt tgatactaga acctttcgat ccggacgtag 1020
 ccataatcag gggggagtgt tatttgctca gctgagcaat acattcgtca ccggcctgct 1080
 gacggacttt acttagaata ccagatagtt ggttttccat tgtctgcagt tcgtcacatc 1140
 caggatactt ttcaaggggt ccagctttgt acttggaat aacttcatca cactgtgcgt 1200
 acgctgcttc aacgaggtcg tttttcgatt gtactagtct atcgcttga tagacatctg 1260
 tgataccgat agaaaagccc atgtttgaga accaacgggc tgacagtttc gacaaacggt 1320
 tcattccctc agcagcagca gcagggccaa aatcacgaag catgatatag aagacattgt 1380
 ctttctttcc ggaaccgaca gtagatttgt ccatcacacc acacatgacc tcggaatttc 1440
 gaacgacgag ccacgaatcg ttgggggtcca ggtctcttgg ttgattcccc tttggcggct 1500
 taaactgttt gcacgcggcg tcgagattga ccaaaaccgg gtcaccta ttaggccgca 1560
 tcagaatatt gaagacctgc ttcccgtcc agagcatctg tggcttaaac actgcgggtg 1620
 gcggaagatc gaaacgcgtt tcgggaccaa gcatgtataa gcagatctgg gtaaaactac 1680
 gccggtcgaa gaaattatcc ttgctgctaa gcaaataggc agcactaatg aaatcttgaa 1740
 tggctccaat gataggctct ccgttcttgg gtgtcgccag gttgtttttc acacccatca 1800

actccatggc ttcagctctc gcctcctccg tctgaggaac gtgaagattc atttcgtctc 1860
 cgtcgaaatc cgcattgtat gggttacata cacactcatt tagtcggaat gtccggtgag 1920
 ggcgaaacttt ggcaaaatgg gaaaggatac tgagtttgtg gagagaaggc tgacggttga 1980
 agaggacgat atcaccgtct tcgatatgac gctcgacgat atctccttcc tgcagctgat 2040
 cggcaataaa tttcagatta ccataacttaa gcatggctct taggggggtg ccctttttga 2100
 tgatatagtt ggcacccggc cacttcttct gtccatttcg aacgcattgc tgtagctttt 2160
 ctttattgta cctgttgacc acttcgggat atgtcatgtt ctttgccacc aattccggga 2220
 cagcaacctc atcgacgcga aggttgggat cgggcgagat aacagttcga ccagagaaat 2280
 caacacgctt tccagacagg ttaccacgga atcgaccctg tttacccttc agacgctgca 2340
 cgaaacctcg aataggcttc ccgaggtctg ccttgttcag accggggaca tcgctgttga 2400
 tgtagacggc aatctgaagc tgcatatagt ccagcactc catgatcgtc tgcactggag 2460
 ctcttttag caaagcattt ttgaggttga tgttactctg gacgatatct ccagcttag 2520
 ccgtcagatc atcctcagtc gatgaagcat cttgaccgac ggacggacga atacacactg 2580
 gcggcgacgg gataaactgc cagaggaaca tctccggcct tgcttcctta ggggtccagtc 2640
 ctaataattc acaatcactg tccgagatgc gcttgaacag attcaacacc cgcagcgcac 2700
 tcaaactgtc ctgagctttt ttgtgatgtt tctcgacctc cggattagaa cttctagctt 2760
 cctctagtga cctatcgaag acgatcttgc taggtggcgg gatcttcttt gccgatgtcg 2820
 aggcatataa cgcacggaat ttgtcatgcg tgatcttaag agagctagta cctgtcttct 2880
 tcaccacccc attaacagca ccacagtttt cgcaggttcg ggtcttgccg cagcggtcgt 2940
 tgactcgttt ggcgatctgc atccgtcgca ggttatccag tcgcgggcgg cgcactcac 3000
 ggagaaaggc gcggcgttct gcttcgggga gcagaatatg ggagcactcc ttgcaaattt 3060
 cctgcagaat actaatcaca cgcttgaaat aaccacatg aaaagcgggc aaaacaagcc 3120
 gcacatgacc gaagtggccg ttgcaaactc gcagtgcgcc gccgatgtc tggcaggttg 3180
 aagtcttatt cgagatacca tgcgcgcgtc gagcgggcca tttggaacaa tagaacggtc 3240
 attttcgagg ttgaagaatt tcctgtcgga cacttcgact acgccttggc tgacaatgtc 3300
 gtcgttggac ctgcggagaa gccgaagcgt tagcctgtcg ctggcggcct cggagaaaac 3360
 ttctgtcaag cgggcactca cagtacacca aatttgagtt ccttgatcac tttggggaca 3420

cggtcgatga cctgggcctt gcccaggtcg gcatgcacac cctccagagg ctgcatcgcg 3480
 ctatcaagga atgaccatgg caaggcggaa tgactcaacg ggttggggac tgaaggctcg 3540
 aagtcgcttc gaagacgacg cgaacgacaa gaatagttta gatctgtcta caggccagta 3600
 gtgccgttga gaagcettgc gaatccctga gaacggaccg tgaatgccga aaaggtgaaa 3660
 gaggggaggc tgcaagtcca gtttaacggc cggggttggc gacgaaactt ttttcgcggc 3720
 aaggagagct cactccaatc tagccaatca gcgacagcgt aactatacca gccttcgggtt 3780
 ctaagtagat tgcattggta taatgttaaa ttgctatacg aaattcataa ttattgtatt 3840
 tggggctctc atatattgta cactgctaaa gccgctactt tgctaagaac gcttggaag 3900
 ccttatgctc aatcaccaca tttccgacgg ctggaagcct cttgcgacct tctttttgct 3960
 tctccagcaa cttttctcgt ctactgacat cgctggcatg gagtttcgcc aacacgtctt 4020
 ttcggtacgg cttgacagtc tcacgcgcaa cgattttttt gccactgca gcctggatga 4080
 taatctcaaa cagctgtcgg tcgacgtgct ctttgaactt ggtcacccat tgccttccca 4140
 gtctgtcggc ctggctgtaa tgtacgagcc gggcgacagc atcaaccgga gctttgttga 4200
 caaggagtgt cagcttgacg atgttactag gcttccagcc ggactcctcg tagtccagag 4260
 atgcgtatcc tttcgtccct cccttgagct tgccaaagaa atcgtcgact aactgcgcta 4320
 aaggcagttc ataactgaga atgacttgcg tcggggtgaa gtattcaagg cttttctgct 4380
 ctccgcggtt cgttcgcaaa gttcgatgac tgttcccaga tattcatccg ggaaggtcag 4440
 ggtggccata acgtacggct cttgcagttc cgcaaccttc atgcgcacgt cgtcctcgtc 4500
 ggggaagcga ttggggtttg tgataatgtc ttccttcccg tccttccaaa caaccttgac 4560
 cggaactgac ggtgggggta tgataaact ggccccatgc tcctgacgaa gacggtcctc 4620
 gaacaccgag cagtgcgaaag taccgaagaa tcccagtcgt aaaccggctc cgagcgcttc 4680
 cgaagactct ttctgcacgg tgataactcg gtcattgaga acaagttgat taatactgtc 4740
 ctccaagtgt tcgaaatggc ccgcatctac gggatatgca gcgacaaaga ccattgcctt 4800
 cggctcctcg aaaccaggca gcggctgcac ggcttctcgt gacccgactg ttgtgaaagt 4860
 atcaccaatc ttggcctctt tgcttcgttt catacccgga ttaaagaaga tgtatccaac 4920
 ttggccagca cggagaactg tttgcggcgt ttcaagcgga tattggatac caacttcgcc 4980
 aacgtagtac ttaatgccag ttgcgaaaga aacgacttgc tggccagccc gaacctcacc 5040

gtcgaagaca cggaccaaac atatcaagcc tttgtaggaa tcataccaag aatcaacgag 5100
 tagcatacgg agaggtctct tacagtcgcc gatcggccta ctcagttgtc agtatttcaa 5160
 aacggacctc taaggaaccc aagacatacg cgggaatctt ctctaccacc gtaggaagca 5220
 gctgttcaac attcaaacca gtcttggtcg agaccagaac tgcattctct gtgtcaagtt 5280
 caaaggactg ttccaattgt tctagagccc gttccggttc ggctgacggg agatccacct 5340
 tgttgatgac gggaatcaat tccaggcctt gcgaaaaggc gaggtagaag tttgcaacag 5400
 tctgcgcttg aataccttga ctagcatcga ccagaagcag cgctccacca cagcttgcat 5460
 aacttcgca cacctccgag cgggaagtcga cgtggcccg ggatcaaca agatgcagga 5520
 gatagtcctc ccccttatgg ttgtatatca tggatcatgt gtgtgccttt actgtaattc 5580
 ctggttcgag ttcgacatcg agcttgcca aaacctgctt gttcatgccc ggtttaatcg 5640
 tgccggtgag ctccaatagt cggtcggaga gcgtgctctt tccatgccct acgtgcgagc 5700
 ctatcctgaa gttgcaaaat cgttcaatcg gaatcgaga tatccttgct tcaagatctg 5760
 tcattggcac ctttgacggc gcatataatt aaaggggttt ctggtgtctg acaaccgccc 5820
 ctgccgctca ttcacctgag tttgtttatc gctcgacatt gttctaccac gcgtctcgct 5880
 gccaacctcg ctatcccttg cggaggaaaa gaaaggagcg acaacaggct gttttgatag 5940
 ctacactatt cgagaccgcc gctgccagcc tccagccgct gaaccaccgc agccgctct 6000
 agtatcctgc gctcgaacta gtctgcacc cttaacttcg gcccaaatcc tttgagccct 6060
 gctcagtcca ctcttttgta caactgccgt cgtatctgag acaacccccg ctttctgctg 6120
 taagcagtca ctatggtttc ccagacggct cttattgagg ctgcattgtc gcttgctggc 6180
 ctggagttgg ttgctgcga caaccacag ctcacatga gcacaagcaa ctcaagcgtc 6240
 agttatttgg ctcttcgac cagtcgaaca acctgggttg gcttgaatcg ttctgagct 6300
 caaactctga ctctggaacc acctctagca ctaccacctc ccagaactct ggtgttaccg 6360
 ccgcttcac caaggactcc gaccccgatg tcgttattgt gccatcacc ctctctgctg 6420
 atgagaatgg caagacacat acaataaccg gcactgctaa tactggtgtt gctacgggtg 6480
 cagcttcgac taccacaaag cagtcaactg tagccgaagt taccgctct gcaactacgg 6540
 agtcgcagcc aaccgcaact agcacctcgt cttctacgag agaggacact gatctctccg 6600
 gtattctggg aagtcttctt ggtgggtcaa gcagcagtga tagtagcgt agcacaaccc 6660

aaaccggtat ctccccgcgt gccactgatt cgaccatttc ggagacaaag actactgatt 6720
 cttccacatc accatcgtea acttctctgt ctgggtgggct gcttgagagc cttttgggtg 6780
 gcagcgactc ttcagcttcc acttccactt ccagcaccac gtcttctca aecagtacat 6840
 cagacggtct cctgggtctt aacttgaact tgaacggcga ttctacatcc tccaccagca 6900
 caactaccgg gtcacacact tcggcaacca gcacgagctc ttctaattgg ttgctggaga 6960
 acctcttagg tgactctacc tccacttcga cttcaacctc tactgccgat tcttcttcag 7020
 caaccagcac tagctcgtec ggtggcttgc tcgacggtct tctgggaggt gactctactt 7080
 cttccagtgg aactaccacg gctacatccc cttcggcgac cagcacatca ggtgggtttgc 7140
 ttgatggact tttcgggacg gattctacat cctcgagtgc gactacctca gtgacaactt 7200
 ctactagcac atccggcggt ttgctagggg gtctttttgg cactgattct agtagcagcg 7260
 ccttgactgc tgtcataccc tcgtcaacaa gcactagctc ccgtggcttt ctcgatgtct 7320
 tttcgcaccg attctttgca ccaacccttt gccaggggct agc 7363

<210> 5933
 <211> 11167
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5933
 catgtctcta gtagtaagtg aagggcacgt tctaagcctt cgcgtaccga cctttaacgt 60
 ccctcccggg ttcccttagg tggatgggaa atctggagca gttcctgggt cctaaccctt 120
 ttcttttctt ttctatccc ccccatgctg cagctgcagc gcgcccaggg tttattggta 180
 ataataggct atgctgggaa ccgattgacc gattgggatc tcggatcgct gcctaaagat 240
 cctcccaggg tttcgggaatc ggaccagggt ctgtatgcga gtggctgttt tggctctggga 300
 aactgccac cttctcccgc tgagataaat ataatgaata ttgcacattt ggaagcttga 360
 acctttgttt cgtagctacc gcagctatgg attaagtcaa ctgggttaaa cagtgcagct 420
 tgagttaaca ccaacgaaag atcccacatt acaatagacg agttctgata tatatatata 480
 tgagctaata ctattgcaag aacacttact actagatcct atctacagtc cagtaaggta 540
 cagaagactg atcatatgtg aattcattct tttaaccatc ataaatataa aactccaatc 600
 gatgggtagg tatcgaatgc cagaaaaaaaa aaaaagaaac aaagggtcaa gtccaatcaa 660

gccctagaat agaaaatgga aagtctatcc cgttatccaa gtaaaacaag aacacgccag 720
 atccaattga acaaaacaga gtgggtagtg gtactggtag ttagaataaa cattcgacaa 780
 cagcaagaaa tgagctcact ccgcctcatg tagagtgcga ctgggacttt tgttcaggaa 840
 gagcatggcc agctccatca gagccggaaa cagaagtagc accagacgag gcaataactaa 900
 tactattcga cgccacagac gcagaatcgg tactgatact ccccttccc cgagcagccg 960
 gagacattct cgtcctcgtg aaagttggca cgggcgcgag ataattatcc agcatatcac 1020
 tcaagatggt cgagcgcacc ggtttgggta ggtaattggt catgccggcc tcgaggcatt 1080
 tctcacggtc tccctcaata gcgctcgccg tcatcgcat gacgaggacc tcgttaacgt 1140
 tcgggtcggg atccttccgg atctcacgtg tcgcttgta tccgtctaat gtgggcatct 1200
 ggacatccat caacacgacg tggaaaggat ttccttcctt tgaacgagca cgtagcgcgt 1260
 cgacggcttg ctggccgctg ctgtatgctt cgcattggag accgagcgag gtgacgaagc 1320
 gaacggcaat cttttggttg atcgggttgt cttcagcgat gcacacgca atctggctgc 1380
 gagggatcat ggagaggctg cgggcgacgg ggcgaggagc agtcttgtct gttatagcgg 1440
 atttgacca aggggcattt ttgtcgccac tctcagactt gactttgttg aaggagaggt 1500
 ggaaggttac ggttggtgca gcacccggga cggagtcgag ccagatggcg ccgccgagga 1560
 cgtcttcgat gatagctttg caaatgctta gaccgaggcc actgcctccg taggagcgag 1620
 cggtgagct gtctgcttg gagaaaggtc ggaagagacg tggcttttgc tcgtccggga 1680
 tccaatgcc cgtatcagag acagagcatt cgaggcgaac gcggccttg ctttcgctgg 1740
 taactttggc tgagacggtg acggatccct tgggcgtgaa tttgtagctg ttgctgagaa 1800
 ggttcatgaa gatttggttg agtcggacgg ggtcgccgag gacgacaagg tccggtggaa 1860
 cctcgtctag atcttcaatt gtttcgagtc ctcggtctcg gtgggtgtag cgaggcgctc 1920
 ggacaacttc tgagattgtc tctttgatgt tcagagggac ggtagagatt ttcattctac 1980
 ctgcttcgag tttcgagaag tcaaggatgt cgttgatgag ggtcagaagt gtatcggcac 2040
 agacacggat cgattcaacg tattcatcct gctcccgatc caattttgtt cccttgagca 2100
 actcagacag gccataaacg ccattcatcg gagttctcag atcatgggag atattagcaa 2160
 ggaagatgga ctttgccttg gcggcatctt ctttcagctt cacattgtgt ttagcttctg 2220
 cctctgctac ctttgccttc tgetccgct cccgagcctg ggtaagggtc cgtttctggg 2280

attccaccat tgaagcattt gtggcgccga ctttgcggtat ttcgcggaaa agcagcgcggt 2340
 tggacaacga gatcccgatt tgattgcaca gcaggtggag cacgacaaga ttccgttgag 2400
 tgaatgagtt tggtttcccc tcaacctgga tgacaccgtg gaggtgctct ccttgcat 2460
 tgggcaacgc aatcacagat cgactcatgg ggtttcgtgt atgataggct tcactaacgt 2520
 tgctgaagcg ctcgctctca aaaacattat ggacgaggac ctccctccctg gtacgcatga 2580
 cataatgagt tatttggtga gccattttgt catccatttc ggagaagggc aggccatcaa 2640
 cgaatgacct ctgtcctctc tcaagatctc cagcagcagt aatggtaaag tggttgtcaa 2700
 agttcgttgc aattactgca aagtcagaac cgttgcacga ctcgagaaca atttcaatca 2760
 tcttcgtcat aagcttatca atttgaagct cagaagacat cacttggcta gattccaata 2820
 tacttgacaa gtcgatgatg tctacagatg ttagcactgt tatattgagc ataagattca 2880
 cggcttacca agtccgacgc cagatatatc aagtgaccgc tcacctgctg ttgtagcagt 2940
 agcgccactc tgctccagcc agcgatgttt ccgatcctct tcttgcaaag cttggtttac 3000
 cccaacatgc tcttgcccaa cgtcctggtc gattccaagc agtgagtcga ctgtttggca 3060
 gccaacatct acacttcggc aagaagtagc tgttctcaat agccattcgt gcttctcggt 3120
 cagctgggat gccttgccaa cggcacttat cgcagcccaa gcagtaatag cattctgcat 3180
 cacagagcga gctgcccgtc tcgcgccccg gcggactagg aattcccctg catggacatt 3240
 agcaagagaa gctgacgaat ggggttattga ggggggttcgg tacgtaccat aagctctaga 3300
 gcgagagctt cttccattgg atattgatgg acctggcaat gatcgattgc cgcctcgaat 3360
 gattgaagcg cagatgtgtg gtcattcttg acctcataga ccaacgcctc tagaatcagc 3420
 gccacattc cgtagtctgc atcgcatgcg cgccgtgcaa agtcgatttc ggccttgtag 3480
 ttcaatacaa catccaactt gccgtcaaga tatgctgtcg ttgggttgtc attgtgcatc 3540
 gtcaagtgag aaagggcggc gtagaaatag acaacgtagg aaacccgaga ggaccaaagt 3600
 ctggaaatac tttcgtccat ttccgtggcc agcttaatgg ccttctcatg atgccgtag 3660
 agatacaacg ggatcattga gagggcataa tagatgtcac gtggacggtc ggggttgctg 3720
 gcattcttct ccagaaagtc gatgtattcg gtggttatat ggctatcatc attcagcact 3780
 gtgtcggcca ccctatatc agtcttccct tntagagccc gcgcaacttg cctgtaagat 3840
 gtagttagtc aagtaatcct ttcgaaacaa gtttgaggac aaaatcttcc tacctaacag 3900

caacaagtgt ggctccgccc cgagtgtcaa cctcccagtc attaatttcc atagggctgt 3960
cgttgcagaa tacctcaacc agtaccaggt cgtgaccaag aaatagcctc gtcattgcca 4020
ttgctgaaat ggtgatcaga gttatgtacg gatcacccaa gacgagcgac gtctcaactg 4080
aggcttcgag ggctggaagc gtggacgcca gaggtccccg cagatggcca acgtagaagt 4140
tatagacaat agatccgcga ctgcgcgtcc aaagctccgg gcaccgggtca agtagagtaa 4200
gagctaattc gctgagtttt acagcgaaat caagatcccc gaatctgctg aaggcaatca 4260
tggcaagggtg ggagcaaccg atacagattt ggatgaaacc ccctcgaaaa agatgatggt 4320
tcatcatttc aattgccatc cgatagaatg tgagcccatc atcccagaag gtaactgaca 4380
tcgcttccgc catcaccggt ccgattgtga ccgtgttgat atccttgctg acagacttat 4440
gagccatctc gctcaaatcc gctcgttcaa tgtggccctt aagcactttg taagccgcgt 4500
cgcaattttc gtagcttgct ggttcccgga gatgcacgcc aagctcttcc aaacatgtaa 4560
gcaacgaatt catggaccga ggatggtcgc ccagctgagc gaataatttt gctttgataa 4620
tccaagccct tgatttacia acagccgttt tagcatgggt aaatatcttg tatagcaagt 4680
cgagagcttc cgaattaaat ccttgagacc aagccatctc cgctgtagcg gtataaagac 4740
gtaatgtctc atcgtagtag acatcgatgc cattgtcatc ccagtgggta tcttgcagga 4800
ggtcaagaca gtggcggtag taccagagtg cggttgggcg cgccccgat tgcgcggcga 4860
tctgtgctgc gtcccataga atcttccgat aatcgagtct ctcaacgaca cgagatttga 4920
tgattcgga agcctgggac acatgtcgtg ccattgcata acggctacgc ccgtcgtggt 4980
aatattttct cattgcttga gatatgatga aatgcatttt ttcaatatta cgtccctcgg 5040
tcaacgagga tgcggcttgc gcgagtcggt cattggcaaa tctgcgttca ttagaatagc 5100
tggaagaa gccaggaagc acatacctga attcatcatc agtgctgcca ggtatgataa 5160
agttcgctg taccgcaaac tgcaatccaa caacgatatc ggcctcagat tgtctgatga 5220
ggttcgcgtt ctggggacat gtaagatcaa ccacttcac atcttcgcta gagtagagaa 5280
attcgcttgt aagtagcttt tgtactaagg aaaatgagaa cgggcttccc aataaggcgc 5340
cccatacgag aattgagcgt gccgcccggc ggagctcctg taaacgtctg gtgataaaac 5400
ctagtcccag tccctacca tacctaggtg ccacaaactc agtgaagatc cggtcgaggt 5460
caaactccca cattgagttc ttccaagaat accagatgca attcgtgcta taacaagtct 5520

ctagcatcat acggacatag aaaggatttc ccacactctt ctcttgatg acagctgcga 5580
 gaggggtcaa cgtcggattt ggaggttggt gcattgtggc tgccacgatc tccattacct 5640
 cttcttttga gagtggcttc aatattatcc ttgtcactga ggggttgtca ttttcgaaaa 5700
 gtgattttat cgcacagat tcaagctccg actttcgact cgtgagtata agaacgcacg 5760
 gaatcttcat tctgacaatg tttgtaatca actccatggt ctcatcgtct gcgtaatgta 5820
 aatcatcgat gcacacacaa atcatcttga actgagaaag tgttctcagg atatccaaaa 5880
 atgtttccat cagcctcatg ttctttgacg ccgcattagt gagaaagaaa tccacggatg 5940
 tttgtccttg actaagacgc ggaagagggtg tcttcgacgg ttcaccctc gtcatatctt 6000
 tgaagatata ctgggccgcc gtacatttgg gagacacctg cttttcattg gtacctggtg 6060
 acatgagttg ctctggaagc tccaagactc tatgtaaggt cgaccacatc ggtctcaacg 6120
 cgcagcggac actgttatgg tattctgtcg tgacatcccg ttcggagaaa atctgacgaa 6180
 ggaggctagc aagaaccttg gcgaacggct cgaaaggcac ctttcttgcc cgatccagcc 6240
 gggcgatgcc tatatagcct aatttacgta tagctggctg aatacgattc agcaaatacag 6300
 ttttccaat ccagccgca ccgctaactg cgataacctc gcatttgccg tatcgacgga 6360
 atttgcttgg gtttttatgc cggtgatcg gaaccatcgg actgtcgtag ctttgagcaa 6420
 catcttgatc cgtattatcc cacgtctggc gcggatccac cgggctcttt ggtttgctag 6480
 tgacaggctt cggcgtagat agagaagatt cagtgcctatg aaaggactca tgcgtcgaag 6540
 cgcgtccaat gttgtaggca gtgccgttag tactagtctt gggattcagt tggaacgagc 6600
 cagagtcact ggagactgaa aagagaacaa aactatcaac tcgtccctct gacagaatga 6660
 atttgacca agcctgcttg aaatctgggt ggccgccttg gaataaaagg actgctaacg 6720
 tcatgccacc ttttcaacca cacttaatac tttgtcgtat tccccctgcc gtccaaacat 6780
 tttggacggg agcgtgaaaa acgaagacac atcgcgctgt gcaacttga agtctttgag 6840
 cgccttgctg tcgccatcac caagcaactg agaaatctgc gtcaggctct ttttcaccga 6900
 ggatatagta tggatcgtt cattgaccgc tttatgtgtc attttctgaa tcaccgcaga 6960
 aacagcatcg ggaatatcca tctcttagc tgagactggc ggcaaccttt tccaagaac 7020
 atttgtacg acttcgactg gatcactacc tgtaaagcgt ggctttccga ctaacatagt 7080
 ccagaaaagc acaccaggg cgtagatgtc agttcggctg tcgggctctg tgggcacct 7140

tcccgtttgt tctggtgcaa tgaattgcaa tttgtttttg acgccaatct ctctcgatat 7200
 tgtcagccag ccctcactga gtacattatc gaaagccttg gcgccattcc ccgtgttcac 7260
 caatttcaca gacctggctt cccggttgaa gtgaaaggcg tctgggcgga tctcgccgtg 7320
 caccgttctc aacccgtagt ggaggagctc caggcagtca cacgcgccaa ttgaaaagcc 7380
 aaggaacaca gacagagaaa cctgctctcc agggcttggt tccacgctct catttctgcc 7440
 gccaatcgca aaccatgccg gcccgaacgc aaccaattcc tgtaacatgt tcaatcccgg 7500
 ggattcgaag atggccacca gaagaggccc taaatcgcca gggctctgagg gcagacgaat 7560
 gagatctagc ggtcgtatgg tatggttgca atctggatcc gaagtttgta caatcgacct 7620
 catcatatgg aactcacgct ccaaccgaac gacatgcgac gacaccctag ctaccacagg 7680
 aatccacaca aactcatgct cggtagcgga gagcgacagc tcgctgctag attcgctcaa 7740
 actgcttctc cagtgatggc ggaagggcgg tcgtgcgtcg gttcgtggag aactgcgcgt 7800
 tatactcgac ggtccagacg aggtcgcgag cggggtcgag gcgtcgggtg cggcagcatg 7860
 tcggaggcca aagacatgcc agtgattata cgttgaatga aacggttcga tagattggtc 7920
 ccaagtgtat ccgggcagtt gcgcgagcct ttgaaagagc cgcgctggcg ggaggggcag 7980
 atcctcacca aggatatggc tatcatccat ctccgccaaa tgggtgcaca aaatatcctc 8040
 gctaattcag ctaccctca cttatacagc cataggtaga gtcgtatgac gaatgccgtc 8100
 agggagtaat cgagcgtgag tgtagcgcca aagggtgac tgtcatcggc gacgaaagca 8160
 gccttcgcca aggacggggc cgttggccgt gcgaggatcc agggaaggcc cacgttcaat 8220
 ctgcaggaca tccgcagaac attagcttta acgtggggat tcaagggcag ttgcagagag 8280
 gttcaaaacta acgtgtcata gattcaggat gaagaccag tgaacgccga tggccaaaaa 8340
 acgaggatgc gatccgaagc ctccaagtca aattcagccc aatccagggt cgttggactc 8400
 tggacaccga tggggtgagc ttagtcagtc ggggcgcacg agcttggcgg gagatcagct 8460
 gcgaggcagg cagcagacca cttggaggca tgggacatga gacacatcat gcaataataa 8520
 gaaggtaatc caaggacttg gaggtgcctg agtagccaag tcgagtcggt tattgttggt 8580
 cgactctgac cattaaataa cgctccaag atcctgatgt ctgacctagc tggttacgca 8640
 acctcaggaa tccgctctga agtcgcacaa gactttcata aaatgtatta ggataatttt 8700
 ataaatgcat caccacttct cagcttacga ggaagaacca gttctaccag atgcccgtac 8760

cagatgccaa taccagatgc caatacagta taggacagtg gcgagcgact caagaagatt 8820
caggactgga gttcttggca cggaactgc ttttgagccc aatttctgac gttacgccct 8880
cggcgctgga cactgaaacg ctcaagtaga tacagaaact atcagagttt gcatgagggtg 8940
gatcaccgag ttttacgaag atgaacccat gcacttgcac tatgtccgga cttacttca 9000
aatcgacgcg ggttgagaac tggatccatc atgaagcgtc cctggcagtt gtgagaccgc 9060
gatcgcgga tatatatatt ggcacccgaa cagaccactc tgtggtggca ccccgtaatc 9120
tgggctttat aaccacaaac ggtatcaaac tatgtttcac ggtgctgagt ccacatattc 9180
taaagattct aaaggccagg gattgattta tcggactaag cgtgtttca gtcacccaaa 9240
cgacgtcttc aggctccggc atgggctacg aagcgattaa tggaagcctg tcaaggcggc 9300
cccgatgcc tcccaacgcg tatcatgagc aagatcaacg cgtgccttgg aagtagagat 9360
ttagaattgg tcgagaatct tctggtgggc tgatagagtt cgtgcgcaag acatatttag 9420
gttcatgatg acatggttat accatggcca aggctataac agcctgaccg ctctggttgc 9480
tctggttgc ctggttgc tgggtgctct ggtttaactg gtacattctc tctggtactc 9540
gtgcgctact cgtgcgcac ggatgtgggt tgtggacagc cgtggcggct gaccaacgat 9600
gggatggagt atgtggaata tgtaccaagt acaaaagaca tgactggcat agccaattgt 9660
gggatcagg agtggctact ttcaataatt cgcaacgcac tagttcgagg cagcctatac 9720
cgtcacagta ggagtagtag tcttgcttcg atcagcttca ctattactat cccctgcct 9780
gatctttccc tgctactctc agttcggatt gaatccagat agggatgtcc tatacgccgt 9840
ttttgacggg ttcgaagtag gagacactcc catgaggaga accagatgtg attgccgatc 9900
aggaaaccac tcgcgatatt gcctcttgcg gtgagagggg tttacctgca aatgagaaat 9960
gtttccagtc agacattact ctaagcagag gcattgctgg tcgggaggtt gtacctacct 10020
accattgatc gaagaggaag atgcagcggc aaaagcgta ttacatcact cctttcatca 10080
tccccgaacg aacattggta ttcgggtact ggtaatggtt tcgtactggt tctcttcacc 10140
tggtactacca gccagccctg cttcagccaa gctcttgaaa attatgtagg ataataagaa 10200
aaatccatct tcggcaggga gaaagagatc caggtcagcc gccagcgaga agtcgtagag 10260
tgtcacgggt ctggtgtgtt atccactgtt ctggtaccgt acctacggag tactactgag 10320
ggatgatccc agttcccacc acgcgccctc caacagagaa attccatgaa ccattgtcct 10380

cgtctctttt ctgaaagtta cttgaaaagc tcttcggtga ctcgagccgc taatcgacct 10440
 cgttctccaa tagtatgagt agttgagtta ggtactatta acctgtctcc gtaccttgca 10500
 ctatccaact tcccgtccga tttctcgccg gcgcgccctg gagttcaacc ctctaacgca 10560
 actccctaag acgggtgtac atacagcctt taagccctct gagagattct cgcgcttgtc 10620
 agactcaatc gtcactctgc gcatagtaac tgcctttcag cttaccggcg gactcagcct 10680
 agccattctt ctgtcgagtc gttcgtcgtt tgttaccgcg gtttcagacc ccaggtcttg 10740
 ctactacgtc atactcccgg cgggcgcccc agaggacagg gcccgttttc ttctatccat 10800
 tcctttccca ccttcaagaa tcacgccgtg actggaatcg ctggcgatct gtaagaaggt 10860
 taactctgag caccgtcaa ctcgtcgtgg tgctaaactg gagcagcaga aaaaggtcag 10920
 taaccagaat actatctcct tgtcgcttgg aaccaccgct gccgactctt tcactataac 10980
 accgctcaac ggtcccttca tcgggtcacc tgttcttgcc tttcttgccg ttcctactct 11040
 ccggccctgc aaattctcca acctttctgc tctccttgcc ttttcttctt tctctgctct 11100
 tttgctcttc ccctcgcttt ggttttatgc ttcgtgtctt cccacactc attcttgact 11160
 catagac 11167

<210> 5934
 <211> 10926
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5934

tcaaatgcat cgaccacata gtcgggcaac tcagcttcta gtcagctccc gccagcgatt 60
 cagaggtatg ttctcctctt gttagacgga gtaatcgaca ttgcttatct cagatatgcg 120
 tacatcaatc ggacgacaac tcgttcttcc agactcttcg ttcggattac tgccgtctcc 180
 gcggatggct gaggaactat ctaagcgttt ggaggtattc ccattgctat ttctatcagg 240
 tacgcctttg tccttctata ccacctgtgt aagcagctaa tttaccgcta gtttgaaaaa 300
 ttaggcgatt cgcgctacgc cccaaagctg aaaagacgac taccctaaat ccagaatcac 360
 tacgactaca acccaaacc catggacatt tttcctccca taaccgatca tgaatttaac 420
 tctcgtttta tgactgctac tgctacaaca agcgcggatt attgcatttc ttccacccat 480
 gtaagaaggc cagcgggcat tcctgcgacg ccttgaatt acttcccaag aaaaagacgc 540

ggctggagaa acacagagac aagaggcaga ctttttgggg gatatatgcc gggaaattgt	600
ttgttttcgg tgggttgtgg cctaccacgt cgtatgcta ctcccgatgg tggctttttt	660
ttacctgtgg atgtttccac tgggatataa aggcgattta caggatgctg ccattccttt	720
aacactagtg ctcggtatgc tgactttatt ttggagcttg tttctgggga gtatacgctt	780
cagtgggccg atatgatatt atcaagtata aattttgaag taagcagatc atctagtcac	840
tatccaagac aataacctcc gcctctactt ctcccacact ctcaactcca agtatatcac	900
ccgcattaac accagtaatg aacgctccgt caccctcttc aagcagcgca tcgtccctcg	960
agtccagtct gatcttcgcc ttacccccctt tggtcacggg caaatgcaca taaacattcc	1020
tcttcttctt cttctgcacc actccgtcct tcgacccaac aatccactca aaccgcccgt	1080
taggcgcaac aattcccgcc cccatgacaa aatccgcatg gatcgggatt gtctccggga	1140
tagcaggaac agcttctctc tcttcttctg gcgtcgctc aacacccgcc ttgagcggcg	1200
agagaattgg gacaaactcc ttccttttag caccctcatc gaacgtcttc gtgtgatagt	1260
tcggcttgag ccatacttc cacggcagcg cccaaatctg caaaaagtgc acgggcttcg	1320
aactctcatt ctgctcagaa tgagcaatcc ccgttcgcc agtgggtgaac tgcacgtctc	1380
ccctcttcat acggtagaaa tcctttccct gcgtccctc ggcgcccttc cggaccatac	1440
tgtcgcggtg cgtcagctcg ccggagagga tgtagctgaa gatctcagca tcgcggtgcg	1500
ggtgtgtcgg aaagccattc ctgcggcaa cgcggtcttc attcagcact cgcagactgc	1560
caaagtttgt gaagcgggtg tcatagtacg acgcgaaaga gaatgtgtgg tagggttttc	1620
agccagccgc catgttcggc gtagccgagg tctgcggagc ggcgggcgat gattttggcg	1680
tgtgtaaggg gcttgctcat tgttgctttc ttatctcagt gatagttttg atcccgttgg	1740
ggatatatat atcctgttct atttctcct gagatgggct tttcaagtcg ctttcgcagt	1800
cttatactct gagacagggg gtggggcgct cgtgtttata cgcacggct gagcatgagg	1860
catctcctcg cgcaaggat cctcgatcgg ctggctttta tttgataatg cggggctctc	1920
acgcttgcca taatcaaata agactgggac atcccacatg tcgcgggtat tctaggagcg	1980
tctgcagaaa agaaataggg ccgatgaacg tcattgctca ctttactatt gggaatgtat	2040
tttgggtcca tcggaagctc aatgacatag gaggaaaacc aagtaatatg caccgattaa	2100
accagaaga gagcaaaggt aaagagtga ggtgcaaaca aaatgtcaag tctcgtcttg	2160

tcaccctttt	gcagacatta	ctatgatctt	aagcgatcat	gctcaagagc	gcaaaaccct	2220
cttgagtagt	catcgacaaa	cctgcgacgg	cccgtgtgct	taggcactga	gactacgccg	2280
gtacgtaact	agcttactag	ttcaaccacc	atactagtct	atccagagca	gtagatggcc	2340
tgagaaaaag	taatttcaac	agtttaccgc	cgagacgcaa	gtaggcatag	gtgtttgagg	2400
cgtccaagtt	agggcagtc	caattcgcac	gtgatatcac	gatcgcgagg	aggcgcgcca	2460
gcgaacggtt	caatattcta	gttcagagaa	ggatacctgt	cgatcgccaa	gattcctcac	2520
ttgggggtaa	gccctgtgta	ctggtatggt	ttatgggtct	cgataaaggc	aatgggaatg	2580
gaaaatcccc	acctcagggc	cgccatccga	acgcaacatg	ttgtaagaca	tttcgttaaa	2640
taataacgct	gttctatttt	acgcagctag	cattctagct	aatggtttat	aatgagcggt	2700
aatggcgcac	aggggtgtat	aggcgctaga	aaaatcgtct	ttatagacgc	gtttgaaatg	2760
ttatgagggc	tgactttgta	taccctactt	aagaatggcc	atggatatac	atcagtacag	2820
ctaaaacaaa	gcgatgcttg	cagaaacctc	agcaatgctg	agtttgggag	cagcacaacg	2880
gcattacgat	atccctgtca	tagcagtaag	cgaccactat	ccacgcttac	cgagggattt	2940
tagcgttgcg	cgaaccacgc	tagacatatt	gtaatctacg	accgcaagtt	caggatgacc	3000
aaccctggtc	attgagcaat	gagaggggtga	ctagaaaaat	cgccggaaat	accgtggcgt	3060
ataaggatgg	gtctagatcc	ctgcacactt	atccagcctt	gaatgaaaat	aaacgtcgga	3120
attatgacag	tgctaggtaa	ccgacagcct	cctgaatatg	ccataaatac	cggtcttctg	3180
gcagtgcgag	gccgcgttat	cccaaaccct	tgacttggc	ccagttgcca	tgtcagaccc	3240
aaataagagc	ttgagggagg	ctgatgccgt	cagaccttag	ttcgcaccct	agacggcttt	3300
tcatttataa	tatgcgaggc	gccgcgggaa	tcaaactctg	aaaggtaaaa	ttttcttact	3360
ggctacagca	tactctgaac	atactggccg	caggcagtg	cgctctgagg	cagatcgaca	3420
atccctcggt	cgaggcacag	catgatttac	acgcggttcg	ggccggatac	agagaacagg	3480
agaggttaaca	ggtccacagc	ttagagtcac	cgcaggactg	aatgggaatt	aacgcctgaa	3540
acaacatggt	ttaggaggag	cggagcgatc	aaggacagag	tgccacgacc	agggccaagc	3600
aacggcgcaa	gcgccattgg	tcctggctgg	cagcgggcct	aaatgatccc	cctaggagcg	3660
agccgtgtcc	acctggaccc	gctaggcaaa	ggtacgatct	cggcagggcc	cctaagtgg	3720
cttccatctc	agacgggtata	gttcccccaa	tcaatggcct	gggttatgcc	gaacagcacc	3780

aataacctttt	ataagggtag	gtcgatgagc	cagagacaat	atcattgtta	cccttgtcgt	3840
aatcttcagc	atgatcttgc	tcattacaga	cggacagaat	ctccgtgtct	gtatgcaagt	3900
accagggatc	cttttctgat	ccctgctagg	cagaggtcta	gcgcacaagc	tactgtgacc	3960
tgatccgtgg	ctgtttgggc	tttcgctacg	gagcgcgaga	ccttgccatt	cctgggtagc	4020
gctgactttc	catgcctagt	ggaacctgct	catcgtgcga	gagcacctg	tcggcatcat	4080
gaatatcttg	tactctgcaa	aaatacctcc	tcttcggcct	tactgtgcct	actgataaga	4140
tgcccgtagc	ggatcgtgga	tgggtgattc	tcgccgtctc	gtggcccctc	tttagcatct	4200
gcctcgtcct	cgtcggcctg	cgagtctggg	tgcgcacacg	gatcatcaag	tcctggggct	4260
gggatgaccc	attcaccctt	ctcgccctcc	tctgcgcaac	aatgaactcg	atctttgtga	4320
ccgtgagcgc	gcactacggc	accggtcacc	acgcgagtga	tctatcggat	taccagcgaa	4380
tcgagtcgac	caagttcaac	gtgctatcgc	agggatttca	tgtcatgtcg	acgaactggg	4440
gaaaagtatc	agttgcgatt	ttcgtgctgc	gcacatcca	caaggttaag	catcatcgac	4500
cgatgatgta	tggtggtatc	gtgctcctct	cggtagtga	tactgtgtgt	gtctacacca	4560
tctatgggca	atgcactccg	acgagaaggc	tgtggaattc	gagggtcgag	gaacactggt	4620
gggctccggc	tgtacagagg	aactatgcgt	ttttccaagg	gtgtatgtgc	caaaagcact	4680
gttgttgaaa	gatacattgc	taacagaacc	agcattctct	gccttctctg	acttggctct	4740
tgccgtctac	ccactaacia	ccatctacgg	cctacaaatg	gcactcaagg	tcaagatcgg	4800
cctgggatgt	gttttatcgc	tgggagtaat	gtatagtcac	ctcctccggg	acttgatctg	4860
cttttctaac	agctcgacca	attatataca	gtgcgatgat	cgccgcgatc	gtgaaaacta	4920
tcaacctggc	atccctcgcc	gcgcgagcag	actacccttg	ggacaccgtc	gacttgacga	4980
tctggatcgc	ggtcgagcag	tacctatta	tcctagcagc	atgcatcccc	accctgactc	5040
ccctcttcaa	tatcgccgtg	cgccaacgca	cgagcaagaa	atcgacctca	aacgtcaact	5100
ataaggctgg	ccatcactcg	ggcagggtccc	acccgtacga	tggactagca	agcggcgcca	5160
ttgggaagtg	cgagccagat	gggtaccac	ttgcgtggac	tagggtcgag	cgagcccgcg	5220
cgggcagcca	cagtgcagc	gaagaccca	ttatggcgac	gacggagtcg	ggccggggta	5280
ttctgatgac	gacagagttc	catgtccaaa	ctgggtcaga	gaacggagac	gagcacgtgg	5340
agcgaagatg	aagctgtagt	gtattcatgg	catcctttca	aattgaattc	ttcgcttctc	5400

ccctccgtct ggggcgcctt cgagcgcaca gagtggccgt acggagatcc ttccatctaa 5460
 gaggaatta agcgacacga tccaccaatc ctctgaggcc ccgagcccaa ccccggttg 5520
 tgcccgacg atcctgcacc gaaggagcca ccccgaggcc ccttggttg atagcggcaa 5580
 gctagtgtca agcgtcctca tcatctaggc cggccggcaa gccactcatt tcacgcacag 5640
 atagctatgc catgactgca cttaggaggt ggttactggc cacatgtatg cgtaacggct 5700
 gcgccgtaca gggattggga cggggtgcgc aatctatgct tatagggcgg cccctaacg 5760
 cccgtagcgt ggccactttc tcaccgaaat gaccccccaa gaccgcaatg agaataatag 5820
 tctgctgcag ttgcacttaa tcttgggtcca gtgctgcata tctgattaaa tgtatccttt 5880
 gaatgaaacg cttgtcccggt aattcgtagc gtagcctgac tccgcctgaa ttagggttgt 5940
 cggcctcgtc tcgactttca aagttaatac aatgtctccg cacaggccgg caggttcgag 6000
 tcgtcgtttt gccgaacgat cgttatggaa tagttgatat ttatccgtac ttaaggacga 6060
 tcgcctgccg aaaaaaattg ctttttttct cctcgtttta ctttgcgtgtt tgtcttgac 6120
 gtcatatccg cactccaccc actcgtgttg aacacgttac aatggatgat cccaaggctc 6180
 aaaccgctga aacgcctacg aggtctatct tagacgccga aaagggttca ggaaatgtag 6240
 atctcgagga gcttggcgag cgagaaggct atgtcctcga cacctctctc gtgcagaacc 6300
 agcaccaaca ccagcatcta aagaccacac cagatggcaa aacagtgtt attccccagc 6360
 cgagcgattc acccaatgat ccactaaact ggtcctcatt ccgtaagcac ttgattctta 6420
 ttgtgggttc cgcgaccgag ttcttgcccg actatgggag tgccacgggg gctgtgacgc 6480
 ttatcccga ggctgcgtat gtccccgatc ctttatattc ttgcctcat ttggatgttt 6540
 ccaaacttgg actgactggc gatgtcggta gggcgtggaa catgactcaa gaccatgtca 6600
 accactcaca agtgggcaac gtcttcatgt tgggtgccgg tggaccatta gtcgtcgccc 6660
 tgtcggcgta ctttggacgg ttccccgtgc tattctgggt cgtagtatt gcgctcgcaa 6720
 cggcgatctg gtgcacagct gcacagtcct ttgagtcgtt catggtatta tcgctctccc 6780
 gttgccacta tcttcatcct tgtaacgca ttaatcttca caggctgcgc gtatcctgaa 6840
 tggtttcttt tcaaccgtcg cccagggcgt acgtactcag cttacctgcc attcttgcta 6900
 ggacgtcaag ctaacgcagc atgcagggtg gtcttatgtt cataaaagac atgttattct 6960
 tccatgaaca cccgcgcaag atcaacatct ggagcgcatt catcgtgctc tcaccataca 7020

tgggcccact	ctttgcagca	ttcataacga	cgacgcagat	ctggcaatgg	gcatttggcg	7080
tatactcgat	cgagaccggg	ctgtgcctga	ttgcgatcgc	gctctttgtt	gaagaaacat	7140
actacgatcg	gcgcaacaaa	agctacgaac	tagtgcccaa	tgggccgcgc	tggaaacgca	7200
tgcttgaat	tcagcaacgg	cagagcgggt	acattgtcaa	tactgtcaca	gacgcagcga	7260
tgagaccgat	caaggtgatt	gtgaagccgg	ttgtgctcat	tgcgacgctt	tactatttgc	7320
ttacctttgc	atgggttgat	ggcatcaata	cgacgctgag	tatcttcttg	ggaccattgt	7380
atggtttcgg	ttctaagcaa	attggtattg	ctcctttcct	ctttgccaa	gcagagcaat	7440
tgactaatga	gggcgttagg	tttcttctat	ttcaccccaa	tcgttgccgc	catcctcggt	7500
gaggtcacccg	gccactggct	ccacgacagt	atggcagccc	tctcctccaa	acgaaacgga	7560
ggacgccttg	agcctgaggg	acgtctgttg	gcatctaca	ttgcaacgcc	atttatggta	7620
gctggcttga	tcttgctggg	tttcgcgctg	gaagaagcat	accactacat	gattgccgcg	7680
ctcggatggg	gcctgtacgt	atttggaaac	atgatcgtga	ccgtcgctat	caacgcgtat	7740
gttctcgaca	gctaccccca	ggcgagcggg	gaggttgccg	cgtggattaa	ctttggcccg	7800
acgacgggcg	ggttcgtggg	atcgtacttt	atggttacat	gggcaggcga	tcagggtgct	7860
aagaggcagt	ttgggaccat	gaccggcatt	gtaggctttg	cgtgctgat	ggttggtgtt	7920
ttgcagtttg	ctgggaagag	tctgagaaaa	tgggcgggtc	cggtgaaatt	taagactact	7980
tgagacggga	cgtttagctt	tatacagatc	agtgcgtatg	atatcatcga	gttggttgaa	8040
atagagcgat	ttatccagaa	aactgttctc	attctgtatt	cgtcttccat	taccttaacg	8100
tgggtgtttgc	ggatgagcgt	atgtggaact	tatcatgccc	cagggactca	gcggcatcgg	8160
cgtcttcgca	aagggtcctc	tatgaagcgg	gaaagtgaat	ctgtgagccg	tggatactct	8220
cacaaacata	taacatataa	cattctccct	tcgggttcca	tgttaccacg	gttatgtacg	8280
aaaaaggtca	ttggcgcggt	aaatttgga	aactgtgggt	agggacgggt	ccctacttag	8340
aggaacgcac	gttaagtact	gtatattttg	tttactaaaa	gctacaccgt	aggcgtccta	8400
catcatttgt	aacttgaggg	acctgtccgg	ctgtttctaa	gtgcctgtca	cccttctata	8460
ctcaagctaa	ggctgaaact	tcggagagat	aatggtgcag	gtagcaata	tcctgcttgc	8520
tgcaaggaag	gatctatttc	tgtaatgaac	ttataatcgt	atgggttgat	aagactcgag	8580
atattttcaa	tgtaaaaggc	ttgtcaatat	gtggagatat	ccataccgtg	ccttaagcgg	8640

cgctcaaaag acatcttcct cgggatgtgt acggacaacg cggaactcat gtaaggggtg 8700
 tctgcggtta ttgaggaaga gctaaggatg tgtcacgaga aagtgatctt gtataacctg 8760
 ggcgctactg atactccgga ttgctcatgg gagataaaag caaaatatag ggcttctgga 8820
 gttgaccggt gtgatgattg gtgcagtggg ataagagccg ctgctagtat cagtactata 8880
 ctgctagata tagagtagtc tgggtgcagct gttgttatag tcaaagggta gggtcgcctg 8940
 gagacagcag agaataggac aaagctagcc tcccacgggt ctaccaaaaa aaaaaaaaaa 9000
 aaaaaaaaaa aatttctaaa taaaataaaa aagtttcaat agagtatctg gggtagatat 9060
 aattcatact agtaatcgtc gacatctctg cgcaaaagtc catgcggaca ctgctgtctt 9120
 tccccaggaa tacatgacca ttctgatttt cctgcgttag gttagacaac aaccaatagt 9180
 ctatagagca cgtcgcaatc atgggtatcag tatccttggg caggggatgg ccctggccgc 9240
 agatgagtaa tgatgcctgt gcatcatgag caagctagcg aaacttgtgg gcgacatatg 9300
 gatataacgt agtttcttgg tccttcagtc tcacacagta cgacgatctc caaccgggct 9360
 tatgctccat atcctgatcc ttggacgagt aaagcaacgc attattattt cccaccgtaa 9420
 actagaaggc ttatataagt agtttatgga aaaatctagg actatccatg cttgatgtcc 9480
 agtgatacaa cgccccatcg gacggttatc tgaacaaaag agaagtgatc gatatgacgc 9540
 ggttttccag gctatagatc gaaaggcaat agcctgagct tgatgctcag atggaccgaa 9600
 gttgagatgt taccgcgcgt tgcgctatag gagccggaat gacacacaag gtatcgcgcg 9660
 aggaacagca gcttgggaca ggatgttatt caccataaga gctagtccag ttccagccac 9720
 acaccacat cttgaatctg atttacttgc tgctttcact aacgatgatt gacggttcag 9780
 ataatcatct cgtgtaggcc catctgctga caggtgggat gcgggggttaa cttgctatct 9840
 tcaaaggtaa gccctgaaaa tgcgcccggct cttcttgttc attgattgga cgataaagca 9900
 ttgccgtacc tcgatgttgg agtaaccaag ctatgataac agcgaatgcc cagaccctgt 9960
 gaccgcggtt tcaaagtttc tcgcggggct tgagatagtc ccctgcttct ttaatggggt 10020
 gtggttatat ctgcctcatg gggcgatagc gtgctttact gccaccactg atatacgctc 10080
 attgccagct ttgcgcatcc agatgaaaat agactgatca agtatagagg cagtaaacgg 10140
 caagatatgg agagtcagac tctgtttcat gaacccccg gtaccgtgac aatcgaggac 10200
 tgtgagtatg accaagcggt gatgaatacc gttctaaccg aacagtgcac catggcgagg 10260

aggcagtcgt tgtgctcaaa ccgactccat cagaggaccc gaatgaccc ttggttaagtt 10320
 caaatatagg tccttttagca cacgaggaag gcataacctg ctaacggacc ggtaccagaa 10380
 ctggctgaaa ctgcgaaagc tcgtcaactt tcgtctcgca agcttttaca ctttggcaac 10440
 cttcgtgctc ctgcacatcg gtaccgtgat ctgggttcag ctaaagcgtg aactggacat 10500
 cagctggctg aaccttaata actcgttcgc attgaacctt gcaggcctcg ctattggctg 10560
 catcctaatt gtccccctcg caatcaagta cggcgcgcg agtatctata tactcagctc 10620
 ggtagtccag cttgcaacgg cgatatggca agcgaagatg aatacaaccg ctgagctgct 10680
 cgccatcaac gctcttaatg ggcttgccgg agccgtcagc gaggcgatag tacagatgac 10740
 gattgttgat atcttctttg ttcaccagcg cgcgtccgcc aatgcgtttt acaactttat 10800
 ggtcaatacg ggagcatatc tcgccccggt ggccggccggg tactgtgcga ctgcccaggg 10860
 gtggcggtgg atctggtggt ggacgtctat catgcttgct atcaatacgc tgctcttctt 10920
 tctcgc 10926

<210> 5935
 <211> 10484
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5935

caacattttc aagccccccc ccccttgac cgattaccgt atcttttgta tcgagcttgt 60
 cgccaaagcg ggatctaggg ggtatcttac gaacgtcaag gccttaaagg gtgaaactga 120
 tgtgccggaa ggtgctcctg aattcatctc ccaacgtcaa ttctggctga accgtatcgt 180
 tgcccccggt atctattcgc tcatgcactt acccgtatt gaataagaac ggacacaaca 240
 tcgtccgcat gttcttctc catctccaaa tgttgtaaa ctggttctcg actttcctaa 300
 cttggttttc tcttggttaag tcatgcagct gcctactcac ttgttgcgaa attctgacat 360
 tggctacagc gtcttactgg cttacgactt cggatcatcat ggatctggta ggaactccca 420
 gttccagcaa cggttacact gctttcccat tcggtaaaac ggcgactcca atcatcaata 480
 ccttggtgaa atacatctac cttgcgttcc tgctcttgca gttatcctt gcgctcggaa 540
 accgtcccaa gggatccaag ttgtcatacc tcgcatcttt cgtcgccttt ggtattatcc 600
 agctttatgt agtcgtcgat gctctgtatc tcgtcgtccg cgctttcact ggaggggctc 660

ccatggattt caatactgat gatggtatcg gtgcgttcct gagctcattc ttcggatcta 720

gtggagctgg tatcattatc attgctcttg ctgcaacatt cggctctttac tttgttgctg 780

cattcatgta tcttgatcct tggcacatgt tcacgtcttt ccccgcatatc atggccgtcc 840

agtcgtctta catcaacatc ttgaacgttt acgccttcag caactggcat gatgtgtcat 900

ggggtaccaa aggttctgac aaggcggatg cccttccttc tgccaagact acaggaggca 960

aaggagaaga agctgttatc gaggaaattg ataagccgca ggctgatatc gatagtcaat 1020

ttgaggcaac ggtcaagcga gccctgactc cgtatgtgcc acccgaggag aaggaagaga 1080

agagtctgga cgactcgta aagagtttcc gtacgagact ggttacgctc tggctcttca 1140

gtaacggtct tctcgctgtc tgcattacta gtgagggttt ggataagttc ggatttacgg 1200

tatgttttcg tgcgccctat ctattattcg aagtgaact gacaggattc aacagaacac 1260

ctctactgag cgtacttcac gtttcttcca agcccttttg tggctaatg cggttgctgc 1320

tcttattcgc tttatcggag ccacatggtt ccttgaaag acaggtcttc tctgctgttc 1380

gcccgtcggc aagagcatgc tttgcctaata ggaaagtcaa gcacgggagg ccttgcaatt 1440

gtagtgattg catgggtccg aggagttatt cttggcacat tttgttttga tattgtactc 1500

tacatatgat gctcaaactc tgtttcttcg ttagccagta cggccgctca aatccttagg 1560

ataggggcac aattctcgct attatgtaga cttttgtagt tagattcaat gggacctgaa 1620

gcgtgatcgc acctgcatag caatttagta tctcccttta ctctaataccc gtactgtaga 1680

ggcgatggct tgtgtacaag gagtcaggct acggctccaa ctatttgctc agctatgtcc 1740

gtagtgaagg tccagggtgc ttttatattt gtggctttgc gtttcatcta ctttcttaaa 1800

tcctgaactc actcctgcca gcgaaggctc tcgttgtaa aggtgattgt tgaccagacc 1860

ttaagtggca aggaaactag taatcgcgcc gaacccacc caaccttcac ttcccctcgt 1920

agagcctcag catccaactt ctctccgca gcaacccag ttttctctct tgatttcggc 1980

cctggtggca gcaccttcgt cggcgaatat tcaccatgct aaaaatctgg tctatggtat 2040

gcactctccc cttctgcaac ctagactgga tgccagtcaa cccagcaaac gacgtctaac 2100

cgcttcgcct cgcaacagaa acaacagcag cagcaagctg aaaatgctga aggcgctgca 2160

ggaaagaaga agaagaaggc tacagctgct cagctgcgtg ttcagcgagg tatgtctgca 2220

tctgcacctg catgcgcttc tctctgtcc acccgcaag tgcttacacg actttaccac 2280

gcctagacct tcaagaactc accctcggaa gcacaatgaa aatggcgttt ccaaaccctg 2340
acgacatctt gaatttcaca ctgaccattg agccggacga gggcatgtac aagggtggct 2400
cattcatctt caccttcgcc gtcaaccaga acttcccga tgacccgccg aaagtcaagt 2460
gcacgcaaaa gatttaccat ccaaattattg acctggaggg gaatgtttgt ctgaatattc 2520
tgcgtagaaga ctggaaaccc gtgctgaatc tgaatgcagt catcgtagggc atgcaggtta 2580
gttaacgtcc tccatgactt tegtcttcta cgcggcgctt ggctgcttgg gaagcttact 2640
ttaatcatga tactgacata ctttgatgg cgggcagttc cttttccttg agccgaacgc 2700
ttccgatccg ttaaataaag aggctgctga ggacctgcga cagaaccgcg acctatttaa 2760
gcgcaacgtc cgcaattcaa tggctgggtg aaacgttcgt ggtgttacat ttgatagggt 2820
tctacgatga tgcggcggtg gtgcggcagc catataagaa aacgctgtct tgccggctct 2880
tcctctcttc taggccgat ggagataagt ctgggactct gtgatgtgag aaaggattaa 2940
catcgactaa gacctgcaag tcaacagcct gtggtattgg cactggtggc ggtgatgcag 3000
tatgattttg aagagcaaca ccatgattaa aaatctaagc cacgtatgga acgaacactg 3060
gaagagggcc gacttgattt tgttttcgtg acacggactc tctatgacta cctgatgaac 3120
tacttttagc gactggatag attccctgat gaatatgaac tctttgactt ctttaagtta 3180
ttgttttctg atccgatgat ccatcacttc tctattgagt atacgtttca ccctacgcca 3240
tgaccatcga actcttcttt tctacgctat gggttctaag acggaagcat acaaccctt 3300
aggttcttag cacaagtata tatacaacgc gcaaacggag aacaaaagtg aaagatagat 3360
gaatagataa atagtctagc attctttctt tctctcaagc ccgtcatatc acaatgtatc 3420
aatctttctc tctcagacgg ccgccctctg ttggaacat ttgtgaaaag agaaaaattg 3480
aaagacaaca gaggaggacg gatggatccg ggtatatgtc ctagcatctg ctccctttgc 3540
tccttctggg cagggctcat tgactttcag aggatgtaga aatgggatct gaaaacgtgt 3600
atggatatct gcacgggga aagtgtcgac cggctaactg agagattgat tattgcgaaa 3660
agagccgctt acgcctggcc ggcggcgcgc tcttgctcga ggcggttgta gtactcatca 3720
cgagcgcgga cgcgaggag gtggtagcct gattcacgat attatattag taacacattt 3780
tcaaacgct acgtaattca actaatttta acttaccgta ccaccatagg tagccaaagg 3840
tggtgccgaa acctataaac ggaagagcga ttagtcgcag tcaagctttg ctagcaggtc 3900

gcggaggtcg gaattttcga ggatgaagca attgatcaag cacatatgat gcatggataa 3960
 tgcagcttgg aacacgggca atccggcatc ctataatccc aatacaagat ttctttccca 4020
 caggcgggtgc cgagtttcgt ttcgagtggg ctgatgcgaa ggggtcgaga gactcaccaa 4080
 aagcgggtgct cagggtcaaga acgagaccac ggcgagcat ctatatgcaa acaagtaagc 4140
 taagtgatca agcgacttcc cctatgtcaa ggggtgaatgc ggaagtgccg taggaaagga 4200
 agtccagtgg ggagagtaac ttacgccggg gataggagcg atagcggtag ccattgcgac 4260
 gagttcttta tagaggttag gagaagattc tctcctaaag aaaacagcag agaaatacct 4320
 gctttggttg gtggtggtga ggtaagagtg gagggagaag tgagtgggtga tgttgacgt 4380
 tgagccgagt gaagctttcc gttccggcgc ggtacagtaa gcgaccgctc tcagtggcct 4440
 gatgcgctgc gactccaaga actacacca gtgatcttca tgacacttca acaaagcatt 4500
 gggcaactat ttagatagtg ctcacgtata atatcatgaa ccaaatcatc ttgggtgttt 4560
 atttgcctgt attgagataa tatactccga gacagtcgtt tcgtgatgcc tcaggcatag 4620
 atcacgtgct gtaaggatcc tgctgctcgg cttcttcacg gcaaccgcct tgaaaagcca 4680
 ctactcttt ccttattaga ctccgctatg gcgccctctt cgccggccgt caaacggtcg 4740
 ctttcatcat tctctgaaca gcagactgtt cccgacacta agcgaatcaa gcgccattac 4800
 catcaccacc atcgtctacg tgaaccggtt acccatgct tgccggagcc tgctatcgcc 4860
 gatgatgcct acgtcgaccg ggccatggga cgcgttatag ggcaatcgct acgaaactgc 4920
 gggttcgaca tcgctgacct actggcgggtg gagagtttcc gcgatgcagc ggaggagtgt 4980
 atgctatacg ttggatattg ttaaggagcc ttattgacat actttgttag atcttctgcg 5040
 gcttgctca tatgtgcga catctatgct ttcaagcaga cgcctccaac ctatccctca 5100
 cgacttcgaa tatgctctga aacgtcacca ttgctgtgc ggctccctta tcccgcacct 5160
 acagcctacc ccaaaagtcg aaccacccc taccctacta cctagccctc cgccagaaga 5220
 ggatgacttc aagatcttac cttctctcga accagagtta agtggtgagg acgaccgcgc 5280
 caggagcaca tacatccga aacactttcc cgagttcccg agcaaacata cctaccgtca 5340
 cacaccagtc tataccgagc gagaacgaga tctctgtaag atccgtgagc gagcagccga 5400
 cgatggtcgg catggagagg aagcgttcg aaagctcgct cgagcggcgt tcaaagacaa 5460
 tcaggccgga tctggtggtc gtgctaagaa acggtggggg gggaagacgg agagcttcga 5520

gagcatgttt gacaagacgg tcaaggggtt aaccaaaaag gtgacaaata atgaagccgc 5580
aggccccaca ggcagttcaa acgcgatgga aatcgattcc ggcacacccc cggtcactga 5640
acgaaagccc gccgtattta aaggcttaac tagcattgaa ttaccaccca tcataaattg 5700
cgaacggggc ttttggcggc gaaccgcggc gccagggaga caaaggccgg aggagaatcc 5760
aagcgcaaag cataatccag aactgtcaag agttgagagt tgggtaagca cataagagac 5820
gcgggcagtt gtgggagcga gaagcatcgt agcggcgctc ggcgtttcgc atttgtcctt 5880
ttttatagca ttattcgaag atacccatgt gaattatatt tgtaattgcc acgagaatcg 5940
ctatcctgca ctgtaccggc gtataatgca aaatccaact aaactccgta aatgcgacat 6000
tgtattccgt gctcttgctg atatcaagcc tttgatttat tccgagcctc gctttctcgc 6060
gtcgtatctc gttccgcttg tcgcaaaggt tcccacgagg tcgtctcaac ggtcaaccca 6120
tccgcacatc tattacagag ccaagtcagc ttattcgac gccattgcac atcaatccgt 6180
caaccgctta ctttctgaaa agccgcacaa cttgattgca gacaacaacc cccggcccag 6240
gaggttttgg cggaggattg cacgagtatt gtaccatttc cataagcttg catttctcaa 6300
ggtccactgc gccgcccttg cgcgcgtttt cttgatggaa gttcttggtt acaatgttga 6360
cgtgttccgg gagcttttcc acgtcgaaaa gggggacgag gggtgccatt gatgccgttc 6420
gaagtttgtg aagttgatat acagtgtcag cgtggtacag agctgagtgg tgtcttttgt 6480
agagaaaagc ataggggaag ttgatgaagt ggggtgtccg gtgcggaatc aaaaccgtcg 6540
gagttagatg gactattaca tccgccgatg ctgtatcatc aaccgatcgc ctctcacctt 6600
ccagactaca cgctccttat tcgcaactgt ctttgagtca attgagtata gctatcattg 6660
aatgaattgc cacatgctgc tgagttgaca tgtagttaat gatatctgaa tactaaactt 6720
cttccaaatg tccgccagtt tcggagaaaa actgctcaa gaagttcatg aagaaagttt 6780
agaagaggta cttcttttct ctcttgcttc aagttagttt aaagttaaag tgatggtaca 6840
tcagctgtgc taaccttgac tcagttgcta catgacttga aagtgtaca tcgagagcat 6900
tcggggacca ccaaaacccg ccttggtgtc tcgcccattg atgagcttct agagcttttt 6960
gggacgtatt ctacgccact gcatggccta cccgggacaa gggaggatat tgttgctgat 7020
ccggatggcg ataccgtcgc tggagaaaac cagagccgg cacatcttga agtgcccgtt 7080
catccggcat ttctagtcg gccttatacc atcctagaga tatctagcac atgctctgcg 7140

gctggcaagt cccaggtatt atattatcta gctgctctgg cagtgctacc gtccagattc 7200
aacggaatcc cgctcaatgg atccaattcc gccgtagtct ttattgacac tgacggccgt 7260
ttcgatgctg agcgtctacg cactgtcgcc cgcgggattg ttctggacaa acttgaaaac 7320
acaagtgatg ctgatactga aaaccacgga gctgttgaag ctatgacttt tgcgtctcta 7380
cagcacatcc acgtttttcg gccgcagtcg tctttggcat tactcgctac attgcaatcc 7440
ctggacgcat atctgcttga cctttcccgat catgcttcag gtaaccgggc ccttcgggct 7500
ataatgatcg acagtgaac tgccttcctc tggcaagaca agctgcaaga tgagatcgcg 7560
cgactgagg atattggccg gtcagcggcg gaaatagaac gcgagcgtct ccagagagag 7620
aaattttacc tcgcagatat atacgcggac ttggtcacia gtttgaaaca gctgcagagc 7680
acatttgatt gcgatgtcat atatactgct acctcttttg gtggtagatc aacggagaat 7740
ccatctatgc cgtatggctc gtataaccg ctagatactg cactccagac accgtctttt 7800
cgttctccgt taccctctcc ttggggattg tttctacac tccggctggt gctgcaacga 7860
aaagtgcctc gtccgttccc acccgggtcg actgtccaag aggcggagag ggatgcgcct 7920
atgcggcaga aggtggctat gcgaggggag ttcttggggt ttgtgaatgg gtggggacga 7980
gaggattggc cacgaaggag attggaagag ctgaagaggc gaggagcaca gttcacgttc 8040
aatgttgggc aaaacagcgt cacattgaac tgagctgccg tctaccgaaa atcccatcaa 8100
taagtgtat tttccggttc ctagagtaat cctgagaagc ggaaggggtt atattatgta 8160
ggcatttaat atgctgtata tctggatatt tcagctacgc tgctagaatg actgtatgtt 8220
caatcgata taccgcagtt cgttctcaga ccaaataac caaacaattt cccaatcgcc 8280
tcaaccgtcg tattcccacc actaaacaca attcctacat cccagccggc tggcgccctg 8340
cgttcgacaa gccgtcgaaa ctctcatta tacagacaaa cagccaatcc cacaacagcg 8400
cttggttcaa caaccacctt cattcggttc agaacaagcc tcattgcagc cttgatctgc 8460
tctcagtga cggaaaacac acccgccact ttgctcttgt ctgaaataac ctccaattc 8520
aacacgcca ccggcgttct taaccatcc gcaatcgta gactcttcac gctctcaacc 8580
ctctgtccag cgtcaagccc acgccgacaa tcgtccgcgc cctcgaagct cggttccgcg 8640
ccaaagactt tcgtcgtctt atccgagaag aaagttgcaa ccccggaatt gagaccgcct 8700
cctccaatcg gcgtaatcac cgcactaga ccttcctag cggacggaga ctcggactca 8760

tgtacactca actcaggctt ctgcgcaca gcatcaagat actgtgcatg catctctagt 8820
 cccgtcgtcc cctggccgca aataatatgg taatcgtcat acggtgggac aagaatcgcc 8880
 cctgtgcgcy cttggacgtc cgcaactacc gcttcccgt ctacactcgt tgagccgctg 8940
 aaaatcactt ctgcgccgtg agactgcgtc cctgcgatct tggagggagt gctgattttc 9000
 ggcattgaaa tatacgcggg aatcccgaga gttgaggagg cgagcgcaag ggcctgtgca 9060
 tgatttccta gtagaagaac agtcagctct tatccattca ccaccgtaa gacggtagtt 9120
 agaaggggccc aaaccaaatt cttggggtaa ttacccctc ctttgcacaa tcttcttggc 9180
 ttcaggttca tcaagcctca caaggggggt aaatgcccc cggggcttta accgcgccga 9240
 tgcgttgaag gttctcgcatt ttgaagaaga agtttatctt ggggtgcgct ggggtcgagc 9300
 cttcgaaagg tggtccgct agcgcacggt gtgactgccg ggctgaagca atggcggtga 9360
 ggggtgcgatt tgtaaggagc ggggtgcggt ggatgtacgg gggtatgagg gtgtaagctt 9420
 cttgtataga atttggggtc gggagttgag gagccatttt ggggtctgtct ggatatattg 9480
 agtttttctg ttaagtttga acaggtaata gaggggaagt gagccctggg ggggttatgc 9540
 ggagttggag agtgatctat ttggagtcgc gagccatccc ggcggaatat tgcgaagtcg 9600
 gaatatgtga gtcattggcg cttcgagatt tgctgagttt acgattctag aacaatgacg 9660
 aaagaaatca attgaacttg gtaaccagtc aatgctttag tggattatt ataagaacaa 9720
 aaaatgaagt catggtacat tgcgaacttt tcccaacca gggttatata tcgcattaag 9780
 ttatttctgg ttctcgggac ggaggagcg gacggccttt ccggcgcgct cagatctcga 9840
 gatcacggat ctctgcac tctttttttg acttctcgcg gtagtccttc tgggagttgt 9900
 agtccaaaaa gcgctgggtc tctgtacagt cgcgaacgct atcgtagagc tcgttgaaga 9960
 ggggcttcag gttgtccttg aagcggctgg accagtcgat ggcaccacgg cgggcggtcg 10020
 tggagcaagc ggcgtacatc cagtccatac cgttggcgcc gatcagaggg tacagagact 10080
 gggtagcctc ctgcacggtc tcgttgaaag cctcggaggg gctgtgacca cgctcacgga 10140
 ggacttcgta ctgagcaagg aacataccgt ggataccgcc catgaggcag ccacgctcac 10200
 cgtagaggtc agagtagacc tccttctcaa aggtagtctc gtagaggtag ccggaaccga 10260
 cagcaacacc catggcgata gccttctcct tagcattgac agtaacatcc tggaagacgg 10320
 caatggagga gttgatacca cggcctcacg gaagagagtg cgaacggtac ggccggaacc 10380

cttgggggcg acgaggatga catcgacgtc agagggaaca tgcaccttgg tcttctcctt 10440
 gaaaacgggg gagaaaccat gggagaagta gagagtcttg ccct 10484

<210> 5936
 <211> 10257
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 5936

acttactact gcgacagatc cacgtggtct gctgcttccc agcatcgcca gctgctgcac 60
 tgctgtgctt ttggaagcg acaccttggc atctgggtgt cttgcttata gcatccggtc 120
 tgactccagc tgattcagaa gaaaagcatt caaagaccat agaagccaag actttctgtg 180
 cagctccact taagcacctg cccatctggg cgtgcctcca gcagctcgct gagtgatgct 240
 ccttttccgt ttttattttc tattttcata ataatttttt tttctctggc tggcttccgt 300
 cacactactg agcctcagge caacaccggt caccaccgcg ccgcaccact ttcgcttttc 360
 aagtataatt tcccttcgcc ctccccacct tcgatctttt ttcattctctc tgcttcttat 420
 ctttgggtcat aactggccct tcagccatgc gctgtaggct cccaagtctt ctgcttcca 480
 gttttccata cattctcggg ggagcgaatc tacttgcgct gttttttcta cctgggtcat 540
 tactactcac cgcacatgac tcctccatct gtttctccta taccctcaca agtctcttcc 600
 gccgcaacgt cacagatctc tagcgaccat ggagaacgcc aggtaacaca ggctttggcg 660
 ggcatgaatt tgtctgcctt gaatggggat gcggcgcttc cccattcagt gaaaccccct 720
 aagcaaacta tggcgaatcg tatctcacgc atgtttacgg gcactggtcg atccacccca 780
 aaggagccag agtcgtcgcg cgaactatca gatagtagtt ccgatggcgg aaaaccact 840
 actaatggca gcgggaaaca gtcccggcca acatcaaggc cttcatcaaa acctccgtca 900
 agggctccct cgcggcaaac ttccaccaa gaagttcca agagtgaana gaacgaaaag 960
 aacgagaaga ccgacaggaa ggccaaacct gccgggaaag accagaagga gggttcgact 1020
 gtccagaagc gttttgagat tcttcggac aactctcatc gccaccatct gaagagtacc 1080
 cgacggcagg agaagctgac tgatcttctt cgtgatatgc ttggtggacg gaagaaggac 1140
 gaccatgcgg aggatcagca actctctctc atgtcaacat ggattgacca attcaaaagc 1200

gagcgggata aattagcggc cgacaagaag ggtggcccca acgccactgc atcgctcgtt 1260
gataagtacg gcaaagcca ggagattgtt ggtcgtggtg ctttcggtat tgtgaggata 1320
tetcacaagg tagaccctaa agactccaag agcgaacaac ttacgctgt caaagaattc 1380
cgccgccgtc cgcaggaaac aagcaagaag taccagaagc gactgacttc tgaattctgc 1440
atctcatcgt ccttgcgcca ccctaacata attcacacac tcgacctcct gcaggatgct 1500
aagggcgact attgcgaagt tatggagtat tgcgctggcg gtgatctcta cactcttggtg 1560
ctggctgcag gaaagctaga ggttgccgag gctgactgtc ttttcaaaca acttatgcgc 1620
ggtgttgagt atatgcacga gatgggtgtt gctcatcgcg atcttaagcc ggagaacctt 1680
ctgttgacca ctacggagc ccttaagatt acagacttcg gaaatggcga gtgctttcgt 1740
atggcatggg aaaaagaagc ccatatgact gccggactct gtggctcggc tccttacatt 1800
gctcctgaag agtatgtcga aaaggagttt gaccaagag cagttgatat ttgggcttgc 1860
ggtgtcatct acatggccat gaggacagga cgtcatctgt ggaaattggc tcgcaaagaa 1920
gaggacgagt ttacagacg gtacttgag ggtcgcaagc atgaggatgg ttatgcacca 1980
attgaaacgt tgcacgggt aagcataaca tgtgctgaga aggcagactt tatactaact 2040
tattcatcct ttaggctcgt tgccgcaacg ttgtttatc catcctcgac ccaaactcctt 2100
ctcgccgcat caactcgtcc caaatcctga aatccgaatg gcttcgag attaaactgt 2160
gccaaagcggg tgaggaaggc ttctaattt cccttgcatc tcagatagca ggtaccgtct 2220
ccgaaaaggt ccgttgggct ggttttcgct ttcttcagc caatgtccct tacggtttta 2280
cggtttcttt gttcctgtct atctcctccg tcccagaata gaaacgggtg gttatgtgtt 2340
tctccctttt ctttcgagtg gatgaaagtc gtccttcatt gtgcgttcca tagacggagg 2400
acttttcac tctctacaa ttatgccggc gcatgtcttt cttcctgcct agtttgcgcg 2460
tttagtctgg cgtcacgttc taatgttaag gcaacgaaga tcatgacctt tgactaaatt 2520
catggtacca gtccaactca tatacgtttt attttaacga cctatacatt gtttttcaag 2580
caagcttcaa acttactttc tctctctctc tctctcttcc tcttcgattt tgcttttcgt 2640
gttttcttta ccccttctct tgcctgcgct ctacttcaa ggtcatgggt taggtttctg 2700
gttttctgac ctgggtcacc aagctttctt tcgattcgtt attctagcag ttttgcaccc 2760
ggctggcggt tctttacagg ttatgggagg attggactat gtttcattgg gggaccaaga 2820

acaaactgta acaccaatac ctcacatgaa tgacttttaa ggaatgataa tggctggccc 2880
 atcaatgaaa gagactttat ctcttacaat actactgcca aggactacct ggtcaaatcc 2940
 ttcacgttaa atgtaccaat catgtgactt taacgggccc attacatcat gaatgtaggc 3000
 agactaatcc ggacgacatc attccccggt ggagctggag ctacctacgt agctgttcgg 3060
 gaaccacagg aacgaatccg tagttattgg cttaacgatg acttcatttc tactcaattg 3120
 tgtgacaggg gtagcgattc ggcccaccct agctgccgct gattatgggt actctaggta 3180
 cataatactt acatttgtat acgagcatgc tctaggctgt atcctagatt acacggcttt 3240
 tgaacaacgg cattgaattc catcaagggt agtctgtaag gtcgccagcg ccactaggta 3300
 tctcgaggca atgagtcac ctggtaggag tgctatttgc acgcaaggtc gatctatgta 3360
 ttattgcatg tgcattgtct atgcaaaagg ggtcctttga tttcgacgga cgcacctacc 3420
 gttactgtac catccccact ctttcttgcg tccaacttaa ccatgagacc cttgagttcg 3480
 tatgttgcta cattcgtcca ttcgtgccgc ttagctttta catatttgac tcgcagcata 3540
 tctagccata aagcgagtc caaccaaagc aaccggacag tacatgtagg aacaaatcac 3600
 gagtttgag gtcaatgaaa tcggccacat cttccgggccc tctaactgac cctgaagata 3660
 tctttaacct caaacctct aaatatagac tgagattagg ttaggttacg gctgatggac 3720
 tggcccggag ttccaggtag aggaagtata accttgccaa agggggcagg ccctcttggg 3780
 ctctggtcct ggagaagtca atgcagatgt aacattgctg gtagccagcagg tggccaacgg 3840
 tgtattatac tagtgctggg tgctctgagt ttgagaactc agctggaggc tggcagtcgc 3900
 gtagggttgg atcctaacat gcagggtgat aatcagcagc atatgctga gtgtagacca 3960
 gaaggcctgg accggcggtt gggcatgttc tctgatagg gcttagggaa tcaagggatg 4020
 atgtcggcta cctgcatgcc ttgctttcct tgcagacggg atacctctcg ctccgatctt 4080
 gctgcgccgc cagccaagca taattgatgc taattgaacc ttctgctctt aaaaactcgg 4140
 cattatacca aatgacacgg tcaagccaag catgcattgc ccggtggagt gaaacatggt 4200
 cgatggctcc aaggaggcct cggccgcaca taggacagcc agcttgtagt actgtagcga 4260
 tgagattacc aacgatcttg ctgtgcttca aacccccac ggtaaaggat tcaccgactg 4320
 aagggttaga gctggcgatt agtctatcat gactgtacaa cttagtccgt tctgtttgta 4380
 tcacaccggc cagccgaat actttctcaa gtcaatgtta ccacttcaat tcgagtcaca 4440

ttgtcggggc atcggcgagg ggattgactc atctcatggt aataaggatg cctagccctg 4500
 tactgtgctc ggggtgctagc gtgcatagca aatccactgg gaatgttgcc attgctaaaa 4560
 ccctgattct tgaatgggaa cttccaccga ctccgcaaaa tcccctaggg gaaatattca 4620
 atagttcaac ggccagcccc taagttgtgg agcatcagaa cagtacaagc gcttaggcag 4680
 caaagttttc tggaatctcg attttctggc tgggtactgca atggcgagc agcaggcctg 4740
 gcatggccgt acaacgcata ggcgcgtaga ttgggtgggac tgtatttagc aaaatgcctt 4800
 ttcaacttcg gtatagattg atccttgcat ctccaaccaa aaaaaaagt cgatttggag 4860
 tagggcattt gttcctgaaa ggggggaccc aagttgtcga aattagaact ggcggttagc 4920
 gaaggttccg ctgtagaaac ccagacacaa gagtattagg tagtgtcata tagccactag 4980
 gcgtaatgct agacaaatat tgcatttca atctttgatt tcgggtgcag aaaagaacga 5040
 aattcagaaa gacacataga tttcatgatt gtcgatcctt tcaccacgag tctggggaat 5100
 ggaacacagt cgtgttcttt gaagatccgt cgctagccga tgccagcgtg ggtagcgat 5160
 cacctgttcc tgctgagcga ccgaagtctt ccctgcgcta gggccgggtt ttggtttgaa 5220
 ttgaagtcag ctctccctgc gatgtatgtg tatgcataat gggacatatg accaggtgcc 5280
 gagccacaag aagagaaaac tagactccat ctggagtagt gcgatcgacc gtagggctgt 5340
 attttggtat tagtcatgtt ttgtaaatac acaactttag atacgctctg cagtatgaca 5400
 ttgccagcgg cgtccgctgg gaccggggca tttttgatga ccgggtactg aaaacaaaaa 5460
 ccgaaaaacg gtcagtattg gtaacaaagg cccctatttc taattaaggt tcttagttga 5520
 caatggaaat gtagcaatgg taaacctccc cgaggtagtc cgcactccac agtcgtcgcc 5580
 gggagtgtg cagcaggcag ccggggtctc gatgaactcg aagtcctcag gcgactcgga 5640
 atgaatgttc gtcatggcgg gcaacgaatt gaccaagacg accggaggat tgggaggag 5700
 gagagtgtgt caatgggaaa gttgacacgg aaggttggcg gaaggagtcg gtggtgtct 5760
 ggttctctgg atactgaaat tacgtgtggg cactgatcat ccgaggatct gccaaatcac 5820
 aagctcgagt gacagacagt tcctgagccc tcagactaag cttaatctaa taaactttgg 5880
 acaaacttat gtacaaagta tgtataaata ttgaaatcta cagaattcag gcacttatgg 5940
 aagtggttta agctagaagt gtgcttacag tcacgagctt ggttcttga tgtgggccag 6000
 ttctaagctt ctcgaccata gcggtgagac tcgtagtgaa aggcaagaac tccatttggc 6060

agcagtgtgc taaatcatat gaaaagatat ccatccctcc tgtaacccat acaccagat 6120
 aaacaatgtg caataaacgc cccgttcaaa agagcacttt aaggattcgt gactgaaatc 6180
 gcctgatgca cgccgagtcg ccgacctcca ccagacaac tagaatgaaa ttagatgaaa 6240
 gcaatggtaa tgatgatagc ataaccggcc tggtcgaaat ctcggacaac tcataattca 6300
 caaagttagc tgaaagtttt gggctctctc atcttcttcg tacgtgggaa acagctcttc 6360
 ggccaattgg tcgccttcag attccagga aggagatccg tatggctgag tataggcttc 6420
 caaagacaga gcaggtttct ttgtaggctg cttcgtagag gtcttagccg tgccgtgcag 6480
 tcgagacgac acctctcgac ccttggtgta gccacagtt gtctgagagt ccgtagcggc 6540
 tgcagtgtgt cgcattgacg aggggttggc aggagccga ggtttcttcg agggaaatag 6600
 tgacgaagcg atcctggctc tcggtttcat gatgggggt actcgagttc gtggaatagt 6660
 ccgctcgttg ccggaaagag ctttggctgc gtcccagca cggaccgtcg aaacgccact 6720
 cgaatagtcc gattttactg aagcagccct gggattccgc gcttggatgc ggcgttgtgg 6780
 aagctctaca accggaggtt gcttcgactg ctcatcatcg ctgagtcccg caaagtcaat 6840
 gctttcgatt tgcttaagga tcatttcgtc aaccatctta tcataagcgg cgaaatcttt 6900
 ctgaaatttg cgctgtcgtt tcgtgaggcc gtcactcca atctcgtcgc cgtaaacgct 6960
 ctctaaacca agcgccaagt tttcagggcg aaattgcggg aatgaagtgt cgtacgtaat 7020
 ctcttcaggg tagtccggca ggtctatgct atgttagatt ttcttgctaa tcgatgccgg 7080
 ctagatgtta tctcaccttt tggcttgggc ggcatgtact cgatatcagg cacgtcatcc 7140
 tgcaggggct gcactttcac ttctggctgt ggctgctcca caaacgggga gaatttcttg 7200
 acgcgctgag tagagccttt cttggctcgtc ctttctggct ttatattccc tataggagct 7260
 gccggggttt gcaagcctct cgctttggca ttggctcgtc tcatcccaa gggagcacga 7320
 tgacgggtgt ctctacacc actagtcagc cgatcccatc ccatgtccat aagaaacatc 7380
 tccaatataa agtttgtgcg taccatagg agtgacaaaa gcaccttga cagagggctc 7440
 ggcgttctca ttttgcttcc caatcgtctt cacagtcttc cttccgagcg ctagcgggtc 7500
 gttctcatcc ttcagtggca ctttaaaggg tgtcttcggg gctcggttcc ccggagtctt 7560
 cggctgtagt tgtctggcgc cctggttcaa tggcttcgac gctgcaacgg tttggtgggt 7620
 gtgaacgagg ttctcctggt ctgaagggc cagcatggtg gcgtgttgac aagaaaactt 7680

gtcacccaag agcgagtaga tgtcttattg agttgtgacg cgactcgacg agttgaatgg 7740
 cagagtgagg ttctagatgc aggggtgccct ccaagtgttt tctttttacc gcggttgccc 7800
 gtggagacaa caaatgatcc gcgggaaggc tcgctaaaag gggtttagcg gtgtattgcc 7860
 tcaaggctca ggctcccgct gaccgccgac tagtgcgat tgctgtccct ttagtttctc 7920
 ctgaactctt cctcactgat cacactctca acttctcacc tggtttatcg ctgagcgaaa 7980
 gccttctatc cgatctcaaa tcttcgtct tccgttctta tatacatatt cattcgctgc 8040
 tagccctcca ccatggacag aatcaaggag gtttgtcttt cccgtcccc ctgctttcgg 8100
 cggggtagct tgagagctat gttgaggccc tgcacatgca ctacctccac caccactcta 8160
 ttcccttgct tcaccgtatc tggacgaaac cagaattagc ctaagatgaa catctctgga 8220
 gagatatagt aaactgaccg atgtcacact agaaaatgaa cgctctccgc ctcgaggcgg 8280
 atgaggccca tgagaaaaat gaggaactca aggccagggt gaagaccttg gagcaggaga 8340
 acctggcgaa ggagcaagag atcacatccc tcaccaccg caaccaactc ctcgaggctg 8400
 aggtggagaa gctggagtct tccgcaaagg aggccaagga tgccgcgagc cagagcgccc 8460
 agcacgatac ccagaacgaa gcgctgcaga ggcgtatata gctgctagag gaggaggctg 8520
 aggaggctga ccgaaatctg cgcgagacaa acgagaagta tgctcccttt ctttgtcacc 8580
 cttttctagc ggtcaagggt aaccattatc tctgaaggct ccgccaaca gacgtcaagg 8640
 ctggccacta cgaacgcaag gtgcaggctc tcgagacatc tcgtgacgaa tgggagagga 8700
 agtacgagga gatggcagcg aaacacgaga gcttgaagaa ggaacttgcg gagctcgagc 8760
 tctccttgaa cagtgtttaa cagccaaact aaactgtgct ggaaagggtg tctcaaccag 8820
 tctctcagtt gtttgtcggt actatttcat tgcacagccc accattttat aatattgttg 8880
 gccgcagaa ggcagatctc ataacattcc tccatgtctt ttgcctcccg ctcttatact 8940
 tctcagccat cttgccccag agtcgacctc aatggctttt caattaattg aagttcagat 9000
 caaatagtcc ttccagcgcc ctaaagttct atgtgatggg gatcctcgaa tgtatgggtg 9060
 tgatggctgt gtccctgatg cgataataaa tgttgcacag ccgtagtctc accgttctct 9120
 ccgcgccctg gccttctgt ggttcgccat ccgctccttc atccttgtga cttttcgctc 9180
 gtccttggtt tcgtatcgga acttcttctt tttcttcttc agtttgttat ctggctgttt 9240
 tttggccttg ggtttctctg tcggcgctgc cccttcggag gtatcaggtc gctcttttgg 9300

actttcgtct gagctatctt catcggattg caggagaccc tctttggatg gatccatttc 9360
ctccacagtt accgtagtat atttgcctc gtctatatac tcggcctcgt agtctacggt 9420
cgggggctct tcgaatccgt cccattcgtc ttctcctcg ttgccgcttg acgtattacc 9480
agcttcatca ccgctttcgt tttcctcgtt gagtcttttt agctgcctct tgtgctctgc 9540
aagtgcccg tcaaactctg cttttcgtc ctgcgcctc tagacatcaa aaaggatcaa 9600
tatgcgtcat aggagaggag cctgcagtca cgtaacgcac cctctttctt tcttctctct 9660
tcgcctctcg caccttgctg tcagcgactt cctgcgcctg ttgatacgt tgttgttttc 9720
gtttgcgaaa accagtcagg aattgatgac ggtcagtatc gtcgaagttg atttcctcca 9780
ctcggctggt caactttcgc tttctcgagt gcgctccttt gatttgaggg cccatcgcca 9840
tcgatgatta taggtccaga tactgaaatg aataagcgat atggcggatt gaatttgtat 9900
gggaatctgt cggccagaaa aaaagtggac gaaatcttgc atccgccgga gctggcaccg 9960
atctgaccgc cctccgagct cgcccaatcc aacagcctgg ctctgatttc aacatcatcc 10020
tccagcggac actcttggtg cccgacgaaa ctccactcta tacaatgcgt ctcaagtcggt 10080
gttcaatgct ggctctgaca gccgcaacag ccagcgtttt tcgtgatacc tctccgttct 10140
tccttgcctc aacatctgag taagctagga acgcccagct aggactgcng ttatgagctc 10200
acaagctagg atcctatcta ctctgcaca actaaaatnc gctccaccct gcttgac 10257

<210> 5937
<211> 18933
<212> DNA
<213> Aspergillus nidulans
<400> 5937

atttgatcca tcaactcttac agctcactta aggcaccaag agaccagtcg aacaccaggt 60
ctaatacgac tcagaaagag cagtatacca catcgcttca caactttgcc ttctctccag 120
cctccttctt ctcccacctt ctctgattc cataattaac agctagattc caagccgcaa 180
ccccgactcc aagcggcggc gccaaaagca gccaccacgc ccaccacctc ggactccttc 240
cctgaattgt agcgacagcc ttctaactt cccgttcag ctctcttcta tccccatcat 300
tccagacgat aactccgctg gcaactctctg tgccccgaaa ctccgccttc tccactttcc 360
ccttcacgtc gccctggctc ttcacgcggt tctccgcgtc ctccgctgaa aggtgtgcgt 420

cgcgcgcgcg	gagacgagcc	atttgtacgt	tcgggtcact	gacgcctacg	acaacaacgg	480
tgccgcaa	caggtccatg	ccggactcga	aaagaagagg	cacgtcgagc	acgacagccc	540
agtagccgtg	aagatagtag	tataggaggc	ttttgtagac	ctcccatcgg	acagcaggat	600
ggacgatctt	gttgaggatc	atgcgggtctc	gctttcgttc	ttcggacgtc	ccaaagacgc	660
gccggccaag	ggcgggtctg	ttcagagggc	gtggtttcgg	tggcactgac	gcatcttggtg	720
tgttttgccc	gtctgaatgt	tcggcgggga	gaaggaggtc	cggtgtgctg	ggaccaaagt	780
agtttacaat	cgcgttatag	ccgggggttc	ctggttccac	gactttgcgg	gcgagttggt	840
cggcatcgat	tatggggagc	gagtaaggcg	gggaggagag	aagagaggag	acggtggatt	900
tgccggttgc	gatggagccg	gttaggccta	ttataagcat	ctgggcggtg	ttttcagtaa	960
agagaacaag	gagtagtatt	gggtattatg	tgggagcgag	gattgagaga	cgacgtggag	1020
atagtataca	gaccgcagaa	gcggatatag	atggggagtg	ctggagtagc	tgcaagttcc	1080
cgaggtccgt	ggttgatgtt	cccgttccgg	tatcgcttgg	aatagctaca	tcaaataataa	1140
cagctcttgt	ccacttcctg	atttgcactt	ggacacctta	tttcaaaatt	aaattcagtg	1200
cacagatgaa	atatcggact	tagatctatc	aatatcgtac	atcaggtggc	ccgatttcgt	1260
gccagacagc	aggaagtctg	gacgaagcga	gaaatggcga	agtttaccat	tctgcgggga	1320
tgccctcata	tggggccgcg	agtgtcctgc	tggtccagaa	atgaaatacc	agcatccacc	1380
ggagtgggta	tggcgtggac	atagtttgtc	cttaattatt	attcaaccgg	cgaaccaaga	1440
atgtgtacta	tgacttcggc	tccggaagcc	cgcttttgct	gggatcttgt	ttctgtccat	1500
tccagccgat	atagggccag	cccttaggga	gggttgaata	cggcggaagt	tggtaacggt	1560
cattgcacgc	accagggctc	ggacaagtca	gatcacacag	tccaaacacc	ttacagtagc	1620
actcttcggc	tgagggacaa	tggataggtt	cctttccaaa	aatcactgcg	aaagtcagct	1680
aaccctgcga	catgattctc	gagcgaaaac	atactatgcc	acgaatactc	cataatccgc	1740
ccacttagat	cgtcggttaa	gtccgtctct	agcagccact	tccgaaatcg	cacgtaatcg	1800
ctctttggcc	gctcgcgaat	cttcagctt	gtgacaccaa	attgcgcgca	acaggacaca	1860
cccacagcct	caggcacgtc	gacttcagga	aacagctcca	tgaatccggt	cttgaagtat	1920
tcgccggcat	gaactgcctc	gcgggtgggtg	tcagtcagcg	gatggatctc	gtcgggacat	1980
ccgaggaccc	aaacgcacgc	gagattgacg	tatccttggt	tctcgaggta	cgaaagctgg	2040

aaattgcgca gcattggcac gccatcgtag tacgggtcgt cgttgtgcca ttggtacctt 2100
 tgggaatgaa taaagaggat cgaatcgggg aggttatcat aattatcaat gatgtatcta 2160
 taggcaggcg ctacagttaga ccagtagtta agcagagaaa gaggctgcgc tcacgtcaga 2220
 tagaccatgg actcccgccc cttgttctgg ctacacgtca acggggcggtt cttatcgtec 2280
 acgacataga tgctcttatg gtagtccggg aagaatttat gcaaccatga gacatcgteg 2340
 cttttcatat tagccacgac catgcttttc cggatggggg cagactgtcg cgccgggggtt 2400
 gcctggccgg agtgccgatac tttatttggg ccaccgagag cttcgaagtc gtatatcggtg 2460
 gggtcggcat gtttatggag tgatggtttt gagaagaaga gcaggtacag agcgaagatg 2520
 atgaaaatcg tcaggaagat cgctttctcc cggttgcggc ggcgcggtact gttgacaccg 2580
 ctgaaaaaga agaacatggc tgccgccagc gactaccaca gaattatagc ccggagccca 2640
 attcgggaat atgcaacgtc aattcgtgaa tcgtcaaagc tcagtactat agttcgcgtt 2700
 gtcaagccaa atcgactgag cagccggtca tggctgcaca gtcgactagc ggaaattgag 2760
 cttcaggaaa gtcgccgtgg ggtcgactat gtcacgtcct tcggatggga cgtgatgtgt 2820
 gacgagcgag gttggtaagg cgttttgaag ttggaaattg gagacagttg gcagctcaaa 2880
 atcggggaat tgagagtcac gagtggagcg gatcgccgga gccgtcgctg ggccattcca 2940
 tttgcacaac tcgactttac acagtacatt tcttcataac catgctaaca taaccatttc 3000
 tcatcatata caaagtatag agtatatacc atcatttcac tactggcagg cagtgatatc 3060
 tatcagatac caactgtgtg cctccactga ctgggcagcc tcaccgcgat ttccgtccct 3120
 cgaccaacg ccttcaatca cctggatata tgtcgtcgtc ggggtaacct cattgtcgtc 3180
 ggtaatccaa tactcagggc tcaagtgtg aagcccaaca acatgggagg aagtctggga 3240
 acgatatcgt tagtgtgcgt cactcgatag tttgccccct ggtctgtgat gtattgcgcc 3300
 aaagcttcgt tgccaacacg cgggctacca taggggtact acgctcgtca gcagacagct 3360
 agccaccagc tggacactgg attcttacia gttcgatggc ataacctgct tttcgcagct 3420
 gcgctgcgcc tagagtagcc aatgctcctc caaagctgtg gcctgtgaag acaatggcgt 3480
 agccgggata tgtggcagta gcagactcaa ttgctgaggt caacgagtct gcaacaacct 3540
 gccatgcctt ccagaacctg ccgtgggctt tgcacccgt acagatctcc tcgaccgact 3600
 ccaggccaaa gtcgaggttt gcaatccacg tgtcaatcgt ccggctccca cggaaggaca 3660

agacgagtaa ctcggttggt gtatctgcgg caaggaagcc tgctacatcc ccgtattcgt 3720
 tctccctgtg actcgtcaga ctagttggat ctgtttggaa ccccgaaatgc agggcttaac 3780
 gactgatag aattcagcca gcgttgctgt gtctgctgcc tcaactgtcg ggcagtttcc 3840
 agatgcgcaa gtcagcttgt ccccgactga cccaatattg ggtgtgcagt acgatgccgc 3900
 agaatactcc gcgaacaggg tcagttgatt tagggcctcc gtcgaaacgt ctacacaacg 3960
 ttagtcctgt accatatccc catgcaaggt gacataccac gacgattcag cggcgctgga 4020
 gcggcaacgg ctaaccacgc aagggtacg aagatggcag aataccccaac acggatcata 4080
 tcggcagtat caccaaccta tcgagaatgt acaatatgta taagaaggcc gcaggaacta 4140
 tcagaaaaga accgcgcgcg tgcactaagg cacagaaacc tcttgtttga tcatcaggaa 4200
 cattttgcta cttatatact aatcgtcttc cagtctccag tcaaagggca gaccagtcaa 4260
 aaatcgagaa gacaccacgt actcgcatag gcacattcct cacttgctta aggtatgcca 4320
 ggaagctaac tccactccag tcttaccac taaaccagg tccaaagcaa tctaaagtgc 4380
 atcctacacg cgcgatacaa cgtgcgcgcg tccaaagaag ggcaaaaac aaccggtaaa 4440
 agagcaaatc caacctcttg cccgcacctt gcgacgatct tttcacttcc agaaagaact 4500
 ccgtggccgt cccgcgtgc ttagctcaga cagctggta gatggtcaga tcagtcagta 4560
 aacacccccg ccggacctgc tttctgcgaa cagagtagtc gtaggccgt agcggctctgg 4620
 gataggtcgc gtaatgagac gatctgactg ggccatccag cgttacttta tagtagtcag 4680
 ccagtaacca cccacattta attcgggagg aacggctgtg agttgtgaag aaaaagaaac 4740
 gaaccacttg gatcgccac tccggctctg ccgtgcttgc caagtatcgg ggcgtctggc 4800
 tatatggtag tcagctcggc aatgagaaat atcgacggac taattccac taaccgtgca 4860
 tgtttctgct cgaagtaacc ttagggagg gctaccctg ctgaagaaat cctacccttg 4920
 atattgagta cgcagacatt attatctata ccttgatcaa gctatctcct aaagcaacc 4980
 acactgttat gggtgagata tacagatcca tacgtgtaca aattaagctc cgacgttgta 5040
 cgagactact gaatccatcc cagtcgggtc ctgataagcc ttaacctagt gctggcctga 5100
 gtttgtaatg gactgtagat agtttacctg gtgtcttgac tcgtctgtat atttttccat 5160
 gtaagatacg atagttcgac ttaggatgat gctttgtgca ctctctacgt catgcatgta 5220
 tgtcgtatct acgctgctgc atcgatatta ggacaaggac atcctgtagt cccattcca 5280

gcatctatatt ctgtttatag gcagtgatct cattgggttgt attatgggtcc gctcagggac 5340
 gtcgaagatc ggcagtttta caccgacaaga atacggagta gataagcact agtcgggttag 5400
 aataaataaa gtgatgaagg ctagctagaa agcaagcaaa gtgagcccg gttaacacgt 5460
 accatgaata gcaatattga aatactactt cataagatac taacgtgatc catgggtctt 5520
 atgccatggc ctgcatcatg cgggcgtgcc tgcattgtgcc gagtaggttg gagctcgaca 5580
 ctttgtccgg cggccaaagc taaggatttc tccggcccg attcgtcttc accatgggtcg 5640
 acggcgaaca ggcaggtatc cgcagatga tagggcagaa tcgaaaagta ggtacatgag 5700
 agtaaataga ttatcaacca tgcagatatt gtcctaaac gcctgtcata agagcgagat 5760
 taaatacgta catcctcaga aagcaaaagc actggagttt taaaaaacgt tgtgccgaca 5820
 atgaccctc aggagtgcac gacgacggc atccataaca gtcattataa ctctgaagga 5880
 cgtctggtta gcataggtaa taaacagctg gtaataaaca gttgggggac aagcactaac 5940
 cgcccgccat caactgctcg ctcttctctt gacgaaaccg catcaccgag agctacgcac 6000
 cccactcact gcccctgttg cctccagtt tccgcgcct cggtatagtc agccatcccc 6060
 gagtctcct ccttggcctt accattatta tgcgggcaa gaacctttgt cttaggaacc 6120
 tgatctcctg gcgaacccat cccaggcgta gcagcaaaa cattatcatt ctcatcgacg 6180
 aattcaaagt tatactctga cagcaagtgc gggatggatg agagctgcgg cccgtaacgc 6240
 tggttgttat cgtagagctc aaagagcggg acggcgagca gttcatgtt cttcgggacg 6300
 gagagtacct ctgcagcaac acgcaaacac atcagcatat catgaccgac gagactcatt 6360
 tggtccttgc tttaatgctg tatgcagaca ctactcttc ttcggaagct gaataaaata 6420
 taattttctta cactccttcg gcctcgtaac atgtcccggc agaaacgggt acatgaaagt 6480
 ctcaaaattc ggctccacc actgcgcaag tgtatctcca atctcccagt cctcatttac 6540
 tccctcgcca gagaattgag atcccacggg cgcaaggcgc tcattcaacc gcctcttgaa 6600
 accctcgatt tcgtcatcat cgtggaggag gtaatcaccg ggtctgcaca gcatccaaaa 6660
 aaggtcagag tcaacgatgg acgcctccgc ggaggtgagt tggggtgcgt acagcttaaa 6720
 aaacgcattc gcaatctgca gcatcaggac atgagggtgg ttgtgttcat ggcaaacgag 6780
 gatgccttcg cagggtgcac gcatgccgtg cttctcatag tgttcttcga gccgctttag 6840
 gggggcgagc acggacgggt ctctctctgg ttgtgtttcc tttgtgccga atgtgtagtt 6900

ggagagaggg tagagacgaa ttgtttcggg ctgttttgcg gagaagtctt taggggcat 6960
 agggctgtag caaggttatg aatttgtag ctaaggctca ctgtcctgat aacttgctcg 7020
 aacttgactt ggagctggat gggacgggat cggatgggag cacacacggg aagctacttt 7080
 gtattgctgt tatttggtt gttgacatct tgggtggtaa ctgtgctgat atgtgaggtt 7140
 ctaggaattt ggcagtacaa gaggattgag taagtcctga aggactaaga tttggtagtt 7200
 atgggtgctg gtattagaga gccatcatca aagctccggg atgttttgat tgggtgtaga 7260
 gtcctatcg caaaaacatc ggcccgtttg ggacgagata ctgaatgctt caggctcgat 7320
 ggaatatatt ctctgctgtt aatctaact agcccgagtg ctaggactca agtattattt 7380
 ctattagaag tgaataggac tgcaagactt tatttctaca actcgtaaaa tccgttacca 7440
 agcccgccag ccaccaccat gccacactga ccgaaccaa gcgaatgatg cataccctaa 7500
 taccaaatat ctaaccaaga aaatctaaag tttggcctca aaatcctcaa attcggtgag 7560
 atttgtaatg ggcgttgggc ccagtactaa cagccaggcg tgccttaaag tcggcgacgt 7620
 ttgtgatata agtcgggctg gcggcttttag tgcggttggg aaggctggac ccctcagagc 7680
 cttgtttgga ctcaacacca agctgcttcg acatcaaacc gaagttttgc ccaatggttt 7740
 caagagcagg gccgacctgc tgttcagaga ggttcaatgt ggaagtgagg aatgttttga 7800
 ggacggacag gacctgctcc ttgtcgccgg gggagacacc ctccagtgcg atgccgagac 7860
 tgtcgctatc tgctgcaaaa ccagctgcct cgagctgctt ggtgacgaag gagagcaggc 7920
 gtgctttttg ttcccttgagc tcaacggcgt gtgcaccagc ttgagctttc aggtggatcg 7980
 agagcttgcc tcgggtagga gaggcagggt caatcatttg cttgtaaaag tcgagaatgt 8040
 ctgacttggt caaggcgcg acacgagcag cgtcgggtctc attctgctgg aagtcatagt 8100
 cttcagaacc aatgtggctc cagaatcgtg atgtctcaga actcagggtc ttgagctttt 8160
 ccagtcgctt gttgatgacg ctgcgcatgt ggccctcgaa ctgctcctcc gtcattggtc 8220
 ctagagtctt tgcaaagttg gacaggaaag agtcaattcg ggattccagg tattgagcag 8280
 tgcgctcgct ctggataatc acgcggtaac caatggtggt tgccgagtag cgcgcgccgc 8340
 tccagacgac ataaccagc tgctccttgc ttcggagttg gtcaaaagca ggctcatcag 8400
 tcatctgcgc gaagagtagg agttttgcgc gaaggacttc atcggcaatg cttccgataa 8460
 agaggtaata ctcgatgcag tgggtgacat tggccggatc cttgagaggc cgttcgtaaa 8520

tgtagtcaga tcccggcgga atgatcacat tgcgcctgac gtaccactgg gactgaggca 8580
 gagttcggct gtttaggata gactccacag tatcagtcac tcgcagagcg tcctccttgt 8640
 agatgttacc atgcgccaga acttcgatat ggttctggcg caggatctga gggaagaaac 8700
 atttgatgtc ctcggcctcg atgtggtcga gctcggcggc gtactgctca ttgagccaac 8760
 ctcgctccgc agtcagatac cgagtgtagt ctccaacctg gtagtacggc tgctgatact 8820
 ctgcattctt ataactacgg gtcagacgct ccttgatgat ccggaagcgg tctgggttta 8880
 tttcaaggtc acgcatgctt gtgaagacct tttccaggag cacagccatc ttatcgttgt 8940
 agcctccgac ggagatatca agcccaaaga tgctggcgga gagatggtaa tccaagccag 9000
 cgagttctgc gtcgtaggaa tattcaacca gagcatctct cacgagctca cagtacagct 9060
 tcgacttcac gaggttggcg ggtgtagccc aaaccagagg gttccgaaga gtaacaaaga 9120
 cagtagcctt gggaaccacg aatcggtcgt ccttcttaaa ccagaggcgg acgtggtcgt 9180
 cgtggcggaat gagcttgggc gtcttctgag gctcggacac ctcttcttc tccaccgaga 9240
 gcctagtggg aacgaactcg ttcttatggg gcatatgcaa ctcttcagg cgtgtttccg 9300
 gagtagtgtc cagcgccgcc cgaatgccgg acatgaagtc cttgggaaca tcttcgacct 9360
 tgtattcagt tccgtaccat ttctccttag tgtcccagtc gcctgggtag tcttgcgcaa 9420
 caacaatcaa cttgaagttg tcctcacgaa ggtatgagag ggcttcttg atcgctccg 9480
 ggtcgaactt cctgaggagc gacctactaa gtagccattc ccgcggcaga ggcttctgca 9540
 tgacgctgct caggcggctc gtgaagcggc tggcaggcga cttttgcttg aacttgaact 9600
 ccacctcggc caggttcttc atctcctcga aaatccatgc ctcaggctcg cgttctttga 9660
 tcattgcaat gtactcaaat atcaccttta caacctgctg gtactgctgt agtccttcct 9720
 gcgtcagccg aacagaaaca gtaaagaatg cagctccagg gcaaaccggc atcacaccgg 9780
 cagataacc attcgcccat ccctttgctt tgatatatgc caggatacta ccggggcctt 9840
 cgtggccaat aagatggcta atgtatcggc tcggttgca ctcatacagc ttttctcgt 9900
 ccaagaacgg gaagtagata tccaccgacc gcgtatccat caccggttta gcgaagatct 9960
 gtttgacat gtcgtttggc agccagatcg ggatgccatc ccaccggttc tgtggcagg 10020
 ccttattact gacaccagcg aacagctctg ataccactt ttccaattca tccaatgatt 10080
 cacggcccaa taccaccagc ttcattcctg tggcagaata atgtttctca tagaatttca 10140

taaactcatt gcggatttca acgccgcgtt tctgcggctc ctcctttaat gtttgaagat 10200
 ttccagttga gaaatgattg taggggtgat cggggttgga tagcgacttg ttgagctgca 10260
 tcaaacgcca cagatcgctc tgcagattct tcttgttttc tgaatctact gcctgcatct 10320
 cgcggtctag tgtgttctct aagaaaagtg gcgaaataaa gaactgtgcg aaccgatcga 10380
 gcgcgccata cagtggtgaa ggtccattgc tcttagattc cgcggaagtg ccatttgtgg 10440
 ttccattagg cgtgacttgg ccgctcgact ccccgctcgc acctgtagca gacacctcaa 10500
 agaagtaatt ggtctcggta ccggcgggtat aggcattaga tgaccgggag tgagacgcca 10560
 ggtactgggt gtatgcgttc tctacgggat actagaaacg gatcagagat gtctttcctg 10620
 ccgaaaagca atgcatacct tttcagttcc catgaacagc atgtgctcca gcccgtagc 10680
 aagaccctgt aaatctgccg ggtcactgaa gcttcccacg tgaacgtcca tcgccgcagc 10740
 agccttgtcc gtctccgggt catgaaccag cagagcctca agcttattag gcagctgaat 10800
 aaccctgtaa gagcgggtcat ccagagaagg cttctccagc ccctccgtca ggcgctctgc 10860
 cgacctcatt gtcatttttc tcgtggttgt gagagactga aaggaggagg ggcggtgaa 10920
 gggagaatta tgccaaagga gggatggcga acaaagaaca ggcgcggtgc gtcgcgagga 10980
 cgcggaatth gaatgacggg cgagcggcaa gaaagtagac cctacgggaa taaagaacga 11040
 acgatgatga gctagaaatg gatacaagga aggcgggctt ttgttccaca agcacagacg 11100
 gcggaccaca ggagagtacc ttggtgacag catgcagtga gaggcagcgc gaagggactg 11160
 gcggtaatca accgtggaag gttgtccggg cgatcagtag acttagagag cgactagtga 11220
 cgaacgctgg gtcaatagag gctttcgaat tgggagggat tgaacgataa gaaggatgaa 11280
 agggagacgg atgagcttgc agttggacgt acgccacaat gccgtacttg aggaacgggt 11340
 tacagaagag gcaaacacgc aatagagcct ccaatagtat ggaatagtgg aatgcacccg 11400
 agtaatgata tcttacaggc gcaatgatca ctcaataatt caggaatccg tgtacggcat 11460
 gtggatgttc ccttcggcaa cacccttgcg ggcggtgaag ctatacctcg gacaaggcat 11520
 tccccttcag caaggcacgt tcatgaggcc aaagatcaag aacgtgcaaa gctggggctg 11580
 agcttgggtc ggtgcgggat ctgggcgcat tgcggagaac cttgaaaggg tcatgtaagg 11640
 ataacataag gacgaggctg ggactaaaca gaagaaaggc agcgatcaat atcttatacc 11700
 tactcatatt ggcggtgtct aatgggtctaa ccgctcattg ccgcagatca atcatgctgc 11760

agccacttac tccgtagtcg tgccacctct ctattatgac tggcagtgcg tctatgttgt 11820
 gccttacttt tgaactaccg gtttccttga tctaaaatgt ggtgaattca ataatgttgc 11880
 ttttcactat gctttgcagt tatgaattcg ttattatcca aacaatatca aagatactcc 11940
 accaaaagcg tcaggaatag cataaagcat gactgcaact aacacaacac ttcgtccatc 12000
 ccaggctcac ccagactca aaatacctaa gcaggacact catccgcgca aagcgtcaat 12060
 gtctgatccg aattcggctc acaagtcttc acctggcttc cagctggctg cgttccatca 12120
 ggccagcaaa ttgtcgggca gtctcgtta ttcgacgtca cagtaagcac ctggccctgg 12180
 aagtctgtgc caaagatcgt ggacagatcg taccacacct ggctagggtc aagcgtgtac 12240
 gcaaagatca actgcgggct gccgttgtat agcccgtcgc tctggcgagt gattttaaga 12300
 gcaatgccac ccgtcacagc gtcgcgggtg aactgctcgc tgaaggtttc gccggggtta 12360
 atcttgtgca cattgctgac agagctacca acgctccaga ggtagaaggg cgctgcgcag 12420
 ttgttgtgga ctttagcggt gccgacggcg ctggccagag gcgctagcgc agtgatggca 12480
 acggcagcaa ggctggtgaa gtgcatcttg aggtgcggta taacagtatc agtggaggag 12540
 gctgttgagg acttatggta ttgaggacgt gattttgata tcccgttcaa gggagagaag 12600
 tcatccttat ataggttggg tgcgcagagt gattgcatat cgagtaagct gctcggctct 12660
 tgctttctgc tatctctcct cggcacccat ggtccgatgg cagtcttgct tgagcattag 12720
 cagcaataac gatgaccgca ttgcacttcc ggcagcagcc tcgaataggg ctggtactat 12780
 actattggta tagtctgacg taacaagaga ctaccaacga caaggcaaag ctccagattg 12840
 gtcatgtcgc gggttatacg agcaggaatg cttgcgagac agagtcatgc cgtgggactg 12900
 cgtgagacag ttacatccta gcaagtaacc agaggtacag cggctcttatc agaacaagtc 12960
 agccaatac attatttttag ggttgtgttt gtacaatacc aatcatactg ctttctggtc 13020
 tcgtgtggga tgagttgcca gaggcctcgc tttgcagatg tctcaggata gtgtccacta 13080
 gcacgggaac gactggtggc tgatgtttgg ctttcggat ggtctcgtat tttgacgaat 13140
 gcagagtccg ccacaaccg tgggatccg ggtagctcgc ttagtgatat tttgtctca 13200
 gccatcatct gaccgtgaag aacaacaga acaaagagaa tgaggtcaaa ccacacgggg 13260
 cgttactgtt cccgcaacca atgcaagacg agtcttcagg attgctgcca aggtatgaga 13320
 atgggaactt aactagtata ctcttatcaa actagatgct ccttgtattg tgctcgtcat 13380

ggatacaaca ggaagccttt tcgtcatggt tcagtctatg agctgatcaa tcaagccggt 13440
 ctaagccatt tccgcctcc cgaccatgca caaaataaga gacaattaca atcacatctc 13500
 ctaaccgatt taactaccaa taatagagaa atttcatgat gttctctggt gatcaggccg 13560
 ctttgggagc ggccttggt ggtgaacgct tgaccggctt ctctcctcc gtctcctcg 13620
 tctcaggctc aatacgatct tcgatccatt ggaaaacctc atctttgtgg tgcataagca 13680
 tgtcactaag tccttccttg gatgactgaa taagtttccc atagcgcttg gttgccttgc 13740
 ggtcactctt ccagacacca tgcgcctttg agacaaaaac gagtgagttc tgttgagtc 13800
 aggatthtgt actagacgaa cgacggtaag actacttaca tctcggtacc atctggataa 13860
 ccagacttga gtatgcgagg ccactgcacg gactgggtct ttagcaacga atgaaatgac 13920
 accgttaact cgctggtaaa gggtttctat acacggatta gctgcctttc tgtggttgc 13980
 atgcacaatc acctacctct attgattaag aggttggcaa ctccatagaa agcatttcca 14040
 ataccaacga ggaatatctc ggttgcttca tttgggctag ggcgccaggt cagtctcgag 14100
 gccaaacttt tgggatcccg agcttactcg atgtaattat ccacaaaata cccggccagt 14160
 tcttcgctcg ctgtcggctg attctcgtct tcttcctcga acctgcctga tgactaatgg 14220
 attgtcagaa tggggaatct agatcatttc gggctagat agactcacag gttcagttgt 14280
 gacatgttta ggaatattta cgtcaatcac agcgtaacc ttgccaacag ccattggac 14340
 ataatccttc attacatcag ccttgttcta agtcagctca gccgccgag ggcaagacag 14400
 gatgcactta ctagccagca gttgtgcgcc tccaagttgt tggtaaatgg atgtggcaat 14460
 ccataatct caggcctgtc actgtcggta tatagaacat ttacgtcgag aagtaatact 14520
 cacggatcat gaaaaatgac tataagcggg gtagcttgat tgtaatttgg acttccaggg 14580
 gttagccatg gtaagatact acactcttgt tgatagcgtt taccttgcca aaacctgatt 14640
 ctggaatgat ttgatatag cagtgcggta gatatagaga gaggtgagct tatagttgtc 14700
 atagagctgc ttggcctggt aagctcgaat gatatctgcg gcttcattag tccccatgca 14760
 atttttgatg tcttcctagc ctaccgtgaa gcctatcagt ccagactcct tcattcttta 14820
 ttgccttggg atacatgcac ttccagtagt cggactggat ggacgatact cgccgtatgg 14880
 tagaaatggc cgcttctgaa gggcaggta aggatagtcg gtcaggcgga tttcccatga 14940
 gtgtcttcgt aacagcgaga gcagacttcg aaatcgacct aaaattatag ccaccctgta 15000

tttctacaat tagctcgca aagatagata tttcggcgca atcgaacctc caagcaaaca 15060
 gcaaccttgc cttgagccag cgatcatcaac atatgctga tatgagcata gcacgccggg 15120
 gtgacaaagc atcctccaag cgtatctccc gcagcagcat caaaaccaga cgcaacttcg 15180
 gacttgtagg ttactgttc ttaacgatgg atagcggatc tcatacttat aaccaaata 15240
 ggggtcaaact cctgggcaat cggcatgacg acctggtgaa aggcataatat gtagtcccca 15300
 tcacccattc cttgactagg ccagggtatg ttgacattcc tagctgacga tcagcacgaa 15360
 gccctggatg tcaggaaacg aatacatgaa tcaactgactt tccttcaccc gctccagcgc 15420
 cacagaaatc cgcgtcgcca tccttctccc cgggatagaa acttccgttt tggtagacat 15480
 gaagcgaaat gtacaggacg ttgggatcgt cataaaacgc cttctgtatt ccgtttccta 15540
 tattatgtga gcggcactgt tcctcagttc ttgaaagata tcaactggta ccatgatgga 15600
 cgtccctgct atggttagtt tctttcaatt gcctgtaccg tcggcatgac ataccaatca 15660
 aggatcatga tttttctgca gcttaatcca agtcgttgcg ggacagacacg cgctgccaca 15720
 gacacattat taaataagca gaatccatt gtcttatcgt gtcggcgctg gtgccccggt 15780
 ggtcgaataa cagcaattgc gttctttacc ttgcgagtag ctacggctag gcaagtttca 15840
 atggcgccgc cgacagatag caaggacgat gcgaaggatg gattattgaa gtaaattgaa 15900
 tctcgagtat gtcceaaggc aatcagttcc tcacagaca tatctgcagg atagattagt 15960
 tttagaaact ctgcgacacc gagtaagaac cgtacccttt gtgctctcta cgaatgcata 16020
 atgtgccgcg gtgtgaacta aagagatttc ttctcgggtg gcattgcgag catgaatccg 16080
 cttcagtggg cgtgccacaa gaggcctggg tgattcgatg tcatcaacca gtctgcccg 16140
 gcagagctct ttgtaaatat agtagattct tcttgatct tccggatgca catctgaggt 16200
 tggtcggact tcacaatgat agcgcactcg aacatcgtaa caaagtcctg acggcaatga 16260
 agcaagtga agtccaggcg cttctttgct ttctcagca taatctgagt actcatcaac 16320
 gagactgtcc tggtagtcag gactgatatc tgcagcatct gcaggacgg ttgagttcag 16380
 gtcaatcttc ggtgacaaga cctcgccttc atctgtcgtg gcagatgatt cttgggtctg 16440
 cgagttacca gcctgaacca caggcatctg catcggttgg ctgagaagcg gtggcgccag 16500
 atatggatca gatctgccgt ttaaattggc gtgtgttgc tgctgaccgg cagcaattgc 16560
 tgtgttggga ttggcagagt ggtaccctgc cccccata atgatgtcct catcatctac 16620

cattgtcgat gaggggagcc agaaagccct tctttgttcc ccaggtccgg tgaaaggaac 16680
gcgttgtggt aacgcctcat gaccaacttg atagtcagaa cggtaatatt ctcaataagc 16740
ccaggaagaa acaagacaaa gaccggagac tttttgagtg taaaaagtgc gagttcaatg 16800
agctcttgat agttcaaagg cagtgcagaa tagagaatag gaagtaagtt agtctagttg 16860
tatggaaggg caatgaaaca attgagaaga caggaagggt ctggaactag atagctctgt 16920
gtgaaacca aattgacaca aatgagagtt gaaactgggc gccgggacgc cgcgcgagtc 16980
aagtaagaat gactgaggtg cgcagaaatt cgcactcgga cacaccaagc taggagggaa 17040
gattaggggc ccaacttacc cggcgcggtg caggtggtct ggcgtaggag tttggttgat 17100
ggagctctag gacggaattt aggtcggaag cttccaaagc gccttgacgc tgacatattt 17160
ccccggtcaa aaggactaag tatacccaga tgatagaacg gcatttggtc taatctgata 17220
aaggaacgcg ggatatacta ccttcggcat ttcaaggctt tcaagtcctc agctgcctgg 17280
catgaacaaa tgtggtagct cgttgtcgac gccgaaattc gcgacggcca atataagagc 17340
aagtactggc tatccacgag aaatagtagc tctaagctac cagtagaagt gaacaatagt 17400
ggtgaaattg atcgtgtatt tgtcattaca tagtacgtaa caatgggatc ctatgccaat 17460
atccccaaca gtcctatga atctgcagtt gcggcatgtg gatacggaca tagtctgcac 17520
actcctgcta aagaatgggc aacttaatag accaaggagt atttttttac aaggagctcc 17580
tgGCCattgg cttccgacct gtttcttatt gggcatcaac cttggagatg taggctgggt 17640
gcgagttagc aacgcacaaa atgtttccat ctaactgagg acttactgat gaggtcaaca 17700
acacggcggg agtaacccca ctcgttgtcg taccaggaaa cgagcttgat gaagttggag 17760
ttgagggcaa taccgcctt agcatcgaag atggaagagc ggggtgcacc gttgaggtcg 17820
gtagagacga tgtcgtcctc ggtgtagcca aggatgccta aatcaactag ttagtcgaag 17880
atgtccaaca gcaaaagcac attcacatta cccttgagct cgttctcaga agccttcttg 17940
acggcatcct tgatctggtc gtaggtaaca gccttctcgg tgcggacggt caggtaaca 18000
acggagacgt tggaggtggg aacacgcac gccatgccg tgagcttgcc attgagcgaa 18060
ggaatgacct tgccgacagc cttggcagca ccagtggagg aggggatgat gttggtagca 18120
gcggtacggc caccacgcca gtccttggcc gaggggccgt cgacgacctt ctgggtagca 18180
gtgtaggagt ggacgggtgt catcagaccc tcgatgatac cgaagttgtc gttgatgacc 18240

ttggcgagag gggcaaggca gttggtggtg caagaagcgt tggagaggac ctgaatgtcc 18300
 ttctttagg tctcgttgtt gacacccatg acgaacatag gggcatcagc agatggggca 18360
 gagatgacaa ccttcttggc accacccttc aggtgagcgc tagccttctc ctgggtagtg 18420
 aagacaccgg tggactcgac aatgtattca gcaccgtcct ggccccaggg gatgttggcg 18480
 gggtcacgct cgggtgtggaa gcggatcttc ttgccgttga caataagacc ctcgtcgtag 18540
 gtctcaatgg tgccttgaa ctgaccgtgc tgtgagtcac acttgagcat gtaggcctac 18600
 atcacacgac gttagctaaa cataattagc tccctagaat tcgaagttagc atacagcgta 18660
 gtgggtctcg atgaaagggc cgttgacggc aacaacatcg acggtaccgc cctcgatgct 18720
 agaaaaattg ttagaatcct atattcacac gagaaaattc gcgattcaac gagctaaaca 18780
 cccagcaata taggctatag ctgttgaaata tgggtgggtga cactcacgcg ttacggaaaa 18840
 cctggaggca gtgtagata ggagataggc cggaattggg ggcaaagcag aactcacgat 18900
 gcgtccaata cgaccgaagc cgttgattcc gac 18933

<210> 5938
 <211> 13388
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5938

atgaacttgt actagacata ctctctccag gaacaccagt attcgaacat gtagcttacc 60
 tgcgcccact ttcgagtgtc gcaccagagt gtcgcaccag aagaaagtga agagccagaa 120
 tagtatacaa acgcacgcgc tctgctacgg aagaggcctc cgccacggag gcaaatacgt 180
 acacgaaggc caatttcctc acattgtatc ggctagtgtg agacgcatgt ttaatccggg 240
 attgggcaaa cggacgattt gcaaaggcag tcttgtatgt acgttgcagg tgctagaaat 300
 gtgcgatggc tgaggtcaag gtgttcctgc ctgctagtaa gcagttttca ttgacgttag 360
 cggcagaccg ctcagatatt ggctgatgt cctgccgatt gacaacacac ccggcataag 420
 aaactgccaa aattgacgta aagccgtttt gtacctttgc cgatgcataa tcccccaatt 480
 atatcttttag accgaagaga gcagtccgca attcagagat caaccaattg ctctgggggt 540
 cgacagcgag acggcggacg gcggacggcg gacggcaatg ctgcctgcaa agccggaact 600
 gagcagttag ggaagaccgc gtactggaga ccgttgactg gttgaagtcc agtgacagcg 660

gaaggccctc gctcgtacgg aagctcgcaa gtttctgggt gtagcgggtga aggagtcgag 720

attcatgacg gtaacctgat cctctttgaa ggctctgccg ggcacatgtc gcgaagtatc 780

gacatcatac agttgtctag gctccgtagg agagacagaa atgaagggtgc tgcgttcgag 840

ggccgggttc agggaagtaa agcatctatg gtagctgtca agcagaatgc agacatgcag 900

gcggaggagc tgagtgaact tgctcgggaa gcaagtgatg catactagcg taccttggga 960

taccgtacgt cttgtcgact ggtgtgggtg gccatggggg aattgactcg cacatcctcc 1020

tgcaacacag tcacgggtcc ttatggtctg ggctgacagg tcaggtgcac catagcgtaa 1080

acaggcaaag atgacgggtgc agggcctagg catggcttcg tcccgcgttc acacctcgaa 1140

attcgttaga tacggtgatt ttgcagcaca cactgacagg gtagctcttc catctaccag 1200

acgtaccgt acgtcgctc tcgccctgaa atcagcattt gatcggttca atgggacttt 1260

tgaagtcagc ctgtctttgc atcaatgttg accggcctct ccgggtgggg caatcgggat 1320

ccgtcttgat tcttcgctag gattccctca gaagaaggat gcagaatact ccgggctgat 1380

tcgcagaagt acaatcttgt ctttaccggt ctatcccagt tggcatgtct ggtgtagaag 1440

ctggactgcc ctcagctcac ccgcactcta tttagaccgg ccagtcctcc ctccccagct 1500

ttccgcctca ctttctcttt gcctctctc aaggtctctt ctctcttgcc tttcttccaa 1560

gtctcaatcc tcgccagtat atactcaatt gatccatcac aatggctgcc gacatcccca 1620

agactatgaa ggccctcctg taagtgcac aactggatgc tccttggtga agctcactca 1680

ctcattgctt taggtacgat aagcccagg tgcacaagat cgccgagatc ccggtcccaa 1740

cgcttcgca gaacgatgtc ttggtaggag taaagagccg gcggtctcag tatgcttgggt 1800

taacacaatt ggtcatacag atcaagggtca aggcgtgcgg tgtctgcggt accgatctcc 1860

acattcacga gggatgaattc attgcacagg taggccattg ctttaaccacg tcaggtattg 1920

agctgtgttg acattcctca cagttccctc tgggtccagg tacgtcgggc gtcctcggcc 1980

ctagccgcgg gagcggagac agtggaaca gatattagtg ctgacaccat caggccacga 2040

gactgtcggg gtcgttcgag caatgggtcc caagggcaaa ggctttgaaa tcggcgatcg 2100

tgtcgtcgcg acaattctga gcttttgcg gagtgttttt attgtcgtcg gggcattagg 2160

tgttttgcga gattttcagg cccacgggtg aaccatgaac gggggcttgc ggagtactgc 2220

gcctaccctg gtacgcacgg ctaacatctg tggctgtca cttttgttga caagagacag 2280

ctggcaggggt cttcaaaatc cagaatctct ctgacgttga tgccacactc ctcgagcctg 2340
 cttcatgcgc ggccccacggg cttgacaaga tcgctccgaa gatgggctcc cgtgtccttc 2400
 tcttcggcgc cggteccacc ggcttgggtgt gttcatattg aatatccggc atgcataaac 2460
 atactgacag ccctagattc tcgcccact actccgctg aacggtggat gccacgtcgt 2520
 agtctgtgct cctgaggggtc tcaagatgga gctcgcaaaa tccctcggcg ctggcgacga 2580
 gtatatcgga ctgtcgcgcc aggaccccag tgctcagttc aacaagctca aggccgacaa 2640
 cccctacggc ttcgatattg tcgtcaggc caccggtaac gtcaaaatcc ttgaagactc 2700
 catcaactat gtgcgccgcg gcggtaaact cgtcgtgtac ggcgtttacg ccaacaagga 2760
 ccgcgtttcg tggcccccca gcaagatctg taagtctttc ttgctttatg gaggctggaa 2820
 cttacaatga actgtatagt cggcgacgaa atccaaatca tcggcagctt ctccgaagtc 2880
 taaaaattcc ccgcgcccat tgactacctc gactccggca aggtcaaggt ttcgggcatt 2940
 gtcaacaaag tgtataaaat tgagcagtgg gaggagtgtc ttcaatcaat gcgaaataag 3000
 agcgccatca aggtctgtat cgtttttgaa tagacaatag acggtgtggg ttggaatgca 3060
 tgagtggacg ctttggggac taaaggttgg tatatgacac aaatttagaa agaacttggg 3120
 catagacaat atatagcgtt ttagaatgac atctagatta ctgcttatat atcattcttc 3180
 cgccaccaag gtccttagtc cttacatggg gtccatccgc catacttcct gggggcactg 3240
 cgggccccat gcatgactac ctaaatagga ctagccctg tccagtgtcc acagctgac 3300
 ttatcgataa gttcgtcact tgagcttcat ttcaccacgc aacttcaatt ccatttcgcc 3360
 tcaatttcac agcgaaacgt gtatctaaaa tggtaaaacc acttacattc aaaggcgaca 3420
 agcccaaatc caaaaagcgc aagaatccct cctccacctc caccgacttc tccgcgcccg 3480
 caaaactccc taaacaatca caatcctcct ccgacctccg acaagatcaa actccatact 3540
 ccaacgaaga agccgaaaac accgctgaag accaaagttg ggtctccgcg gacacaacat 3600
 ctgacatata aggcccaatc cttattgtcc ttccctccga cccactgaca tgcatagcct 3660
 cagacatgaa cggaaggtc ttcgcaagcg agctggagaa cctgattgac ggagatgcaa 3720
 ggacggccga accgcacgac gtgcggcaag tgtgggttgc gacgagagt gcggggacgg 3780
 aaggcttcag tttgaagggg gcgcatggga ggttcgtctt acaacatgat cttaccgtgg 3840
 ctggatagag ttaagagttt taatgtggtt caggtatctc tcctgcgaca aatacggcct 3900

cttcagcgcg actgcctccg caatttccca gcacgagagc tttctcatcc acccctcccc 3960
 cgatatccca ggggcattct tcatgcagac tcaaggtggg acaggggaga gcgatacatt 4020
 tgtttcggtg aaagagggcg cgaagggcgt tgagattcgg ggcgacgaaa atagtctgtc 4080
 atttcagacg acgctgcgcg tgcgtatgca ggcgcgcttc aagccgagga tcaaggcgaa 4140
 caaggagacg aaggcgcggg agaagattag tcggaaggag ttagaggaaa ttgtgggcag 4200
 gaggttgaat gaggatgaag tcaagagatt gaggaaggcg aggagggagg gaaactttca 4260
 tgaggaggtt ctggatgtta ggggtacggg gaagcatgat aagtttgctt aatagttag 4320
 gatgtcattg cgctatatta tatagactct tgataggatt gtccgtggag aaaacgaatc 4380
 cttactggct acagataaca gccgcatgaa taaatatatg tatttcattg gtattggaaa 4440
 tgctattgat tacttcggtg gtgcgattct agataagaag gcagtattct atatcgatgt 4500
 gctgataggg tatcacgaag cccacaatga gacaactcaa taccaagcct gtgaaagcag 4560
 ctacataccc cgcattgctaa cccgctcgta tacagcgta ggaatagata tgggaaagca 4620
 tcccgggtcg agcacacttt tcttgagag cgggcagaga ctgctacttt gtgtcaaaga 4680
 catatcgata cactcgggat gatagatgtg gccacacggc agctcgcgta cggtgatga 4740
 agcggggata aagtcacga ggcagatggc acatattgtt tgtggatggc tcagtcgctt 4800
 tatgtgtctc gggcaacaaa aaccagaata agctgttgct ggagagaatg gcctgtatgg 4860
 acatggttgt agtggagtat tgccgctttc tgcgttggt gttttgggac cttgttcagc 4920
 gtcagtggtc tcttcggctt tgacgtagct gccgtatttc gtcatatgtg ctttcgtttc 4980
 tgcgtcctct ttctcagctt tcatccgttc agtcgtggct ctttcctacc acatcaggct 5040
 ctaccacggt ttattgcagt tgtcagtgt ccttgtgtga ggtactggct gtcagaaccg 5100
 tctagacctg gatagacata tagtggaagc ctacgcagaa actctcgcgg aaccctgaaa 5160
 ggtcggagat catacgggtg gtgatccact gcgcttgctt caagctgccg ctgtagaatt 5220
 tcccggcgtc gtctctgcaa gagttgataa agaaggagaa ggatcaggca gatgactaga 5280
 atagtcccaa ggatggctaa caagaagccc cagatagtcg gtgttttccg tccatgtttc 5340
 tctaatacat gcattaatca cggctctgcg catcaagaat cctcagagt agctcaccca 5400
 ggtcaatgac actaaaaagc agcaccctcc acgattcgga ttccgaaagc gccacgaact 5460
 cattactctg atcttgtgga agcgtcctat tgtttgagta ccatgatagt tgcttcataa 5520

gagcgattcc tgccggacca ggaatcgcgt agactggata catattctca ctctcccagg 5580
acgattcacc atgcaatagc cacgttgaat cagctggcgg cggtggtttg gtgtcgtcac 5640
tagctggtag aaagaacatt agggcctcgc ttcttgccgc tctggcagcg tccaaaaatg 5700
actggctgca attaggcggt aaccacgggt cgaggccaat agtatgatat ccaaagtgagg 5760
ttacgtcttg atgccgagtc acattagctg gaatgaacgg ggcggtaatg ttgttgcattg 5820
ggtcatgact gttgagactg ggaacgaaaa gtagaccctc aatgggtcca tctttcggag 5880
catgctgggc agagagcgtc tgtatgttcc catcaagagt aaagtgaaaa ggtgcagttc 5940
cctagtagga ttgctattca gctcctcgtt ctgtatccaa tgacagcgat catcgccatt 6000
gggaacatac attaatcgat ggtgtcagat tgctcgtttt accggggccg gcaaaaagcg 6060
tagcagccgt cgtaagagat atggcagcta taggaacaga acattagcca acgaccagcg 6120
gctaacatca agactgaacg caagctcaag ttggagcaa cacatcagga accatacaca 6180
tatatgacca cttctgagtc taagtccagc aaatacctca tcagatacgc attgtcgatt 6240
caaattgggc ggtcaggttc aggccatct aattgcaact agactttgga ggatacgaga 6300
tttgactcaa tgatccagga aggttgatac gtcaaatcaa ccagctgag caaccggatg 6360
ttttatttgc tgtcaggcag tgaaaagtca tgcagggaga gtttcggaag cctcggatga 6420
aaagcgatac aggcgaaaga atttttttt cacctccagc gtacgagagc ctgccactga 6480
aatcaaggct agatcgtttc ccagtctatt tgtagtatga cgctattcga agtggagcgc 6540
tatcgacgtt tgcggacaat caagcagcgg agatgacaag gaataggcag ctcgtgcgac 6600
aggtttgcca aggacgactt cttctgttga tgtctgcatt cgactgggca tcagcatgat 6660
tatagctcga ggccacagaa ctagaagctg caaggctgaa aggccaagac gtcgatcttg 6720
tttactgcat cttcatcgaa aagcccaagt ggcgcttaag ttataagcga cagtatatcc 6780
tgacacagca tcagagtgga caaagcgtga tttcctggta ttctgtcaac atcattcact 6840
cttccaagaa gttcacagg catcagtttc atccaaacgg ctacttactc catagagtac 6900
gggagtgcag atcatgggcc gtgcccgtc taagttgtct ccttattcta gaaccgcaa 6960
gctcttcttt tccacatata gttggtgcag tatcttatct ccatgtgata tcacgtgcga 7020
cgacctcaat tggcaacaac cggaccgcgt tgtgattccc cgtgggcact aaactagaac 7080
atcactatca tccccactc catatttatt tttcctcca aacatactca gtgatattca 7140

gtatctgtta	cggccgcaac	ggtaaaagca	tgaacatggg	ctatttgagc	ccaatccaat	7200
agcgccatcc	tgattcgtag	ctaccactag	cttatgctta	gcagtccagt	tacaacttga	7260
agatgccctc	tgaaaacaaa	ggcaagggaa	aggaccgcga	tgtgcgaccg	tcgcgaagcc	7320
gcaacacgac	ccccagctct	gggttcggcg	cagcgccggc	tccgacatct	gcccccgta	7380
ccagctacct	tgaaaacgac	gcgtccaaac	tagtgattcc	ggtgaccata	caatattcgg	7440
agatcctcga	acgcatgggt	ggggtaggcc	ccattccgga	ctcgaaatcc	ttggagctgt	7500
tgatggaaca	cctaaagtcg	ctcagccaat	ctgctgaggc	tcgtggtgat	gcctgcaacg	7560
ccgggatcag	ggagctttct	cagaagcgca	aggaagtgtg	ggatgaacct	gagccgtatg	7620
aaggcgacga	ccgcgttaag	atgaagcgtg	aagatgacga	tgaggaagaa	agcaaattgg	7680
gcaaggcagg	aaagctcaag	aagcgaaaag	accggggcag	cagttcgaag	gaagagcggc	7740
cattggccca	tggagctcgt	gaaataacct	gccaggatgg	cggagatgca	aaggtggaag	7800
gtggtaagtc	tttataaatc	acttcagatc	gattgtctgt	actctaaccg	gtcacttgca	7860
gccacgtcgc	cagcatcaaa	gaaatccaag	aatgcagtgt	cggatgagat	gtcatcacta	7920
tctccgccgt	cattggcatc	gcctcgccag	gaagttgatg	acgcaaattg	gggctcgctt	7980
ggttctgatg	acagctctga	ttctcaccaa	cctgagcccc	cgccagccgt	acctcagatc	8040
caagtcttcg	gtcccaacct	gcttaagtgc	gatgatccta	caatatacca	tatccgggaa	8100
gtcacgccaa	acatgacaga	tgaagagaag	aaggagatat	atagtgtcaa	cgtcttcctt	8160
tcaagcgact	tgcgccactt	gatggctggg	actcctccag	accgtgattt	cagtaacgcc	8220
aaacctacca	accaggtgaa	caacaacaca	tttctcgttt	gggttgacct	ttatgtccgg	8280
cccatgatgg	aggaagatat	agctttcctg	aaagaaaagg	tctattccgc	ctcgagctca	8340
tgcatgcaac	atctcactaa	ttctttcagg	gcgatcgagt	tacgccattt	ctgatgccga	8400
aacgagggaa	gagaaaatat	acagaaatct	gggcagaaga	agacggtctt	atgaatatcg	8460
accaaacaaa	cggcgatcga	gaacgattgc	ctctgaatca	aggccgaggt	aatatcgatc	8520
aggtaacgga	tgagactata	gagacagaca	aagtctctgt	aggcccgtta	gtcagccgcc	8580
tttattcctt	gctacggtac	gagcatcggt	ctcccgaaga	aaacaccaca	aacgggagca	8640
ccaatgctga	tgtatcggtg	aatgggatga	acggagattc	aatggatatc	gaccatccga	8700
caggagagtc	agaaaacaaa	ccacagccat	ctgcaacaac	gttccgcgcc	gcatcgccca	8760

gcggcttcaa agtccccgcc gcgaagctcg accacgcaca gctagacgaa cgattaaaag 8820
 ctgagctgcg ccacgtcggc ttcctcgggc cagacgacaa tccagactat gacgctcact 8880
 atgacgacga catcgcgag cgctccgcc tcttgcaaag cgaactcaag aaacagatga 8940
 ttattaacag tgcgcggaaa gcgcggtcc tcgaagtcgc ccgcgagcgc atggcgtacc 9000
 aggagtacat gacaatacac gacgatctag attcgcaagt acagcaagcc tacttgaaac 9060
 gaacaaggac gctaggcaag agcaaaaaag gctcccaggc gaaacatcga cctggtggtg 9120
 ccggcggcgg aagccacgtc gtcagcggc ctggcattag ccggcccgt attggagacg 9180
 tggctcggac cttatggac cgacgtaagc gctggcgcga ctgtatcggg ccagtcttca 9240
 aagattgcaa gactactgtt ccaggccccg gcgagagcct gtttaccccc tccgttatgg 9300
 cagagtacga gaaggcagaa ttggatgggt gggaggagga gcaggaatga ttctttcatt 9360
 ttcttgagc ctctcgtgac ctcagtcact aggtcttgaa ttcagatgat tgcattcctg 9420
 gttttatttg gtttggcgca ttatggagca tatttttctt aatgggaggt gttggaaatc 9480
 attatctatg ggaggttttg tgtgttgtgt gattattgtt tctcaaagga acataagcat 9540
 atgagttcgt atgcatgtct acttagttaa gtcctgaggg aacagcgaac gaaattgggt 9600
 accaattgca agcaaactta ttatggatcc tagattaatc atcaacgatg cactattagg 9660
 acctaccct gatagcgctt caaccgtgcc gtcagctccc gtcgctgat ttctagctcc 9720
 gtacatatct ggtcaaaaca gtgcatccca tcaaggattt tggctagatc tttattgtcg 9780
 atgaaatcct catcatcgtc gtcacatat agcggtcgg agcgactccc gctatacact 9840
 gaggcacggt cttgtcctt cccatcttca ctgcgataat tatgattacg gtgatgggtc 9900
 tgatttgat ggtgttgttg gtgttgcgca ataggcggag gatcatcacc tgcactagag 9960
 gcgtaaggac tatttgcgcc ggtcccagga ccgcggaag atggtccgct gtgctggtag 10020
 tgggagcgcg gtgttgtagc gcccgacttg aactgcggag cagggttacc ggttgctata 10080
 gcgtatttat gtacgcggta caagaagcct ttgataatac cgaaggatga gaagcggcga 10140
 atatcaatgt gagcaagttg gcggctgtgc tggaggtacc actgcttaac gctctggcct 10200
 tgtttcaggc tagcgtataa ctccacgatg ccgacgccgt caactacttc ccggttgcca 10260
 atggaattag ttgacattgc taatgggtcg gtggggcttc gggttgagga gatgagtgcg 10320
 cttggatttc gttgactggg ggtcgctgtg ggactaatgt tttcgcttgt gctaggtgca 10380

atactgaaag tcccccgact aggcattgat tcccacacgg gtggccaagc agcgtcttta 10440
 tcatgcccgg gggggatgac cgctggtgtg gtgggtgccg tcatcgggga ggcgaaaagg 10500
 gtattgacgt agcgggcgca ttcgcgttgc atgttttcat ctgcggcaat tgtggagctg 10560
 aatagagcag tgggcgcgta gatagccgaa aaggaaaaga tgtcgagaag gaagatgcag 10620
 ccgtagtaaa gaagatgccg gattgcgcgg cagggtgagg aaaagtccgt gtcggcgagg 10680
 agtgagatga tgcgaatact gtttactccg ttgatgtgcg ggacaatctg gcacataata 10740
 gtcaggacat catctgttta tacatatctt cctgatcata tacatacgcg ttgcagggtc 10800
 agatcccagt tctcgtcgag gaaggcttga tagcggacag tgaataaggg cacctgccag 10860
 gcgcgaacgg gaggcggatt agggatatacg gggaagagct ttatattcag tgtattcagc 10920
 tcatctgtgt cctggttagt tccagtcgga gaaaagttat gagaaaacat accgattggg 10980
 atcatgcatt cgcagtagtt gttcaagtct tccattaaag tctcacacaa gctgtacacc 11040
 tttccctcac cactctttga atgatctcgc gacaaaaacc cgctttgttc ctccaacccg 11100
 tgcacaaat ccgccagttt ctggacaacg ctcttgtagc tgctgaaatc ttcctcctcc 11160
 gccagtacaa ggcaaaagtt gaagatgaac tcattccggt cataccgagg agacttcatg 11220
 catatcgga agcccagaat acggatatcca ttcgtgcaca cttgaatgag gtttccgcaa 11280
 agctcctggc gaggaatcac aaagaacgat atgtcggaga aggtgaagaa ggggggctgc 11340
 gacgcagccg tgttggagaa agtaatcgct ccatcaggga cctgggtgaac gacctttggg 11400
 cctttcgagt tgcatcagtc aatcattcag gagccgtaag tgtcatatgg cctttaactt 11460
 accttctgt gtgtcgaatt tgctgtagaa aatggccttg atcatgattg aggagcgacg 11520
 accgacgttt aggtcaacgg aacgaagatc ggctttgtcc cgcaaatcga atgcggcatt 11580
 ggacatcgag tacaggctag tcgatcagtt ctacgcctcg tggtagacga ggattgcggt 11640
 ttcgccggtc tccagggggg ggacattgta gtatgtgctg actcattgat tccatgatga 11700
 ctggttattg caacagaaga cagaaaactt atgcgtcaca ggcgtggtct cttgacaact 11760
 acgacctgt tctctctgtt cgtgctcacc aggaaagtgt cctggacttg tacctttcgg 11820
 aaaagggaga cctgctcttt tccagcggag gcgattctgt cgtcaatgta caaacctct 11880
 atacggctac tgtatatttc ccatttgcgg ctgactagtt gtaggttttg tctaccgta 11940
 cctttgagcg gctctattcc atccattccc atcatgatgt cggcgatctc tttgctgtgt 12000

cgtactcgcc gagcctgaac accatttact gcggtgccca gaacaccagt atccaagtaa 12060
 gcgtcttcta ttttcgaaat atccgtacct ctgtctgatt ctttccagtg gtgcaacctt 12120
 tcccaatcag gagcagcatc tactcagcaa tctgcggctc atttatccaa gcgaacacat 12180
 cgtttctttg actctaaggg tcttgatggc actcgcgctc ctcgagcgga cggcaattcc 12240
 gtggccgacg ggggccaggt actcaccttc aagcgtgacc atcacaatct atttgctcac 12300
 catggatacg ttacacccat gactcttggt cgagggctgc tcgaatcctc gcctaacgac 12360
 gaggttcttt taaccggagc gggcgacgga gttgtcaagc tttggcgttt agagcagggg 12420
 aagcccgatt ctgccccgc gttaatggca aggttgcata acacggatcc tgtactctcg 12480
 gtagctgttg aaggatcggt tctctactgt ggtttgcag gcggcgccct aaacatttgg 12540
 aacttagatt cccatcagct cgtgaagcga atcgtgccc atactggtga tctgtgggcg 12600
 gtagatatta tccacggaat ggccgtatgc ggagattcga acgggattgt aaaggtacgc 12660
 tcagattcat atgtgagaaa ctcaccgcta aaccagagta tagaaattca actcacgatt 12720
 tgaagaagtt ggcagttggg ccgctcatga aggcactatg ctggcctctg ctgccggtaa 12780
 atttaaggat cggcatatct acgctaccgg aggaaatgac aatactgttg gaatatggga 12840
 tttgacagac gtgtcattgt ctgcgagcga gaagcccca atcgacaatg gtgagtatct 12900
 tggcctatct gacctagact aattgctgac atgggtacag atgagatggt aagctgcctt 12960
 gccaaagctgg tagctttcaa gacgatctca gccagtcaa aattcgccgg tgaatgcaac 13020
 caggggtgcag ctttccttcg ccgacattgt atctacttgg gagctaagac gaagctttta 13080
 accaccggcg aggataccaa tcccattgtc ttcgcccggt ttagtgcgat atcgctgaa 13140
 acaacaata agacgatatt gttttacgga cattatgatg tggtcggagc ggacgctaac 13200
 cggcaaaggt ggaagacaga tccatatcaa ctaacttcta tggacggatt cttgtacggc 13260
 cgtggtgtat ccgacaataa aggcctatc ctcgccgctt tgtacgcagc ggcaggtctg 13320
 gcgcggcaga agacccttcg atgcaacggt gtatttctcc ttgagggaga ggaagagtcc 13380
 gggtccca 13388

<210> 5939
 <211> 1526
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5939

cgtcacgcgtt ggggttaaaag ctgaattcgg tgaagcacgg tattttgaga actctgattc 60
ccagtcttcg gcattcatag gaggaagcga tccggtgaca gggcgccatt cggtataact 120
cagtctgac atggtcagtg gatgtcaacc agcgctctag gtgcgaccta cccggactct 180
gttagcctag tcaggcctcc aaagacaacg ataccaaaca cactggccgc actggctagt 240
agccagtatg cgacactttt gctgctgaca tcgggaaaag ctgactttga cgcttctggt 300
ttcgcgccgt tgacagcagc ggagtcagag gcatatcgcg caaatgcttt tctagcctta 360
ctcctcaaaa atgtcgcac cattttgtgc cgctctgaaa gatgggtgcg gaggaagtgc 420
gaaggcccg cttggtgcc taatgtagac tccggacgag gcattgatgg caggtaaatg 480
atccactaga cagtcgcggt gcaagccgtc taaatatgag cgcagaactc ccaagggacg 540
ccatgatcac ggcaatgttg ggggcttga ctcattcgag ggaaaagcgt caaaatatcg 600
cgagcggagg ttgcggcagc ggcgggcatt ccggggcctt ggcttagagc caattagagt 660
gccagaattt gtggcctgta gattgactaa acaatcatac gatgtcaaaa tgagctaaaa 720
gagcaccgaa attgtcaatc cagaaaagga attccatcga caagcctttg actatatgct 780
ataggctcag atagaaatta gtagtgatct gtgacttcgg ctgcaatgtc cctgccgttc 840
tatttgatcg attcctgagg cagaagctac cccgtttcgg cttagctagc tttggtgctc 900
aaagcgctac caacagcgca gacgactcgt acatctcaat tcatacgcca ttggacaacc 960
actcatcctg acaatgtcct atgcggttga aacgaagaag cgcaaattcc accgagtgct 1020
cgaatccctt accaaacctt caagtcccgg atccagccaa tcctcgagcg ttgcggcagc 1080
tcagcatacc ccgtctcgca aaagggcccg tctaagcgtg aaagatgata gcacccctac 1140
atctgtgcgg aaagatgtcc tgaagcttgc acgatctgcg tcccgcgctt cgtctgtatc 1200
accacagtcc cgaccagct ttgttccttg ggaccgcgag cgtttcttag agcggttaga 1260
gacgtttcgg cgggtagatc gctggtcgcc gaagccatcg gcggtcaatg aggtggaatg 1320
ggctaaacgt ggctggatat gtacagatgt atcccgtgtt acgtgtgtag gaggtgtgg 1380
tggtccggt gtcgtcaaaa tccccgatga actggacgag ctagatgggt acgacgccga 1440
taagatccag gaaaggaatg aagtcctgta gtgacaactt acattgggtc acgatagttg 1500
ggcactaata aaggccaggc gcaaaa 1526

<210> 5940
 <211> 10108
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 5940

```

actggactcc ttaccctctc gaccggatac cgaaaggaat ttttccccct gttccgaaac   60
gcgccacacc ggggcagctt ctaggtccca gcttttggt catgactgcg ctatccctga  120
tatagcgtca gagaagcctt cagtcgatgc actttcagtg gccccgtctc tgcccgagac  180
tgagaaagaa cgccggaccg nnacgagacc ccaaagctc ccgccaacgg ggccggagcg  240
gatcgtggtc cgctcatacg tattggagca gcgcgctcg cgtgatgaag ccaagcgtga  300
cgaggctcct gatccccctg cgaacgcaga gagtccggtg cgatcattca agcagcctca  360
accattatcg gccggtttgc aaaaatcagc ggaactttcc ccaccaactg ctccagctgc  420
catggttgcc aaggacggta cgatcacccc tgagtcatcg cctagcaaag taggctcatc  480
cgcagtcctt gcagacgcag gacggggcgc cactcagtg ggacgatccg cgtcgccggg  540
atcgctcact tcacctcgca tgcattcggc gagtattcct actggtcccc gggcacttca  600
acagcggccc caaccgtctc gcggacctgc caaagtaac aaacaatggg ttcgtcctgg  660
atataatcgt ccacattttg cgacaagtcc gacattacca ccaaagaggg attcaattga  720
tatcaaggac aggagctcgt ctttcggcga agaagttaag cgagatatga aaacggaagt  780
tgatgagcag ctgccgagcc caaatgcgaa tagacctgcc gttgaaaaag atagggctgc  840
gctcaaagag aaagagaata ttcccgctcc cgaatcgtcc ccaaagccgc ctatagaacc  900
agctacgaaa cccaagacc gctcgcctag ccctccccag gtacaggcgg tatcacctaa  960
accaccgaa gacaagatgg aggatgtcat tccagacttt gggaggtcta gtgatgaaga 1020
ggaggatgag aatgtgttca cacaggaata cttggaagaa agaaagcgaa tctttgagaa 1080
agacatgcaa atcctccgtg ctgaaatgcc tacctcgcct ctggaagatc cgaccatcgt 1140
cgcattactt atgcgaatcc aacttctagg gatgattgca aatgagactg agcctgaaaa 1200
ggcccaggag cctacggctc caacggatga tgttgtgaa gaggaagtgc aggccactcc 1260
tcaggataat gacttcggca agaagaccga ggagcaggag tcttccacaa agcttgttct 1320
ggattcgtc ccagcagcgg tgtctgtagc gaatcttcca tttctacaat ctggccctcc 1380

```

tacgcccgtg tccgacctcg atgtatacca agagaatact tccacgcatg atcgcataaa 1440
 ggcgattttg cgtgaggagt tgattgacca ccgcaaggcc gtagctaaga aaaatgcgga 1500
 gctgcggatg caatggttgg aaaaatacaa acaatggaga ttaagtgtgt gggagatgga 1560
 ccgtgccaaa gagaaggata aggcctctgt gaccccgagg cttaccctc ctctgcacc 1620
 gaccgcacca gtaacgccga acccctctt agaaggccgc tccgaggggc gacgctacaa 1680
 aggtaacagc gaactggatt ttcaaatgc tctccgtgcg tctgagatct ctgctcagga 1740
 ggagctcgcg cggcgtcgcg agaataaggc tactgcgtat ccagatctca ctcgtagggc 1800
 ggtgattccg gacatgcttg aacctcgga agccaaagcc ctcatataca aagatacaaa 1860
 caacattgtt gatccgtctc gtgccatgga ggtgttcggc ttcctaccac cgccaaatga 1920
 ttccacgcct gaggagcacg aaacgttcac cgatgctttt atggcccacc ccaagaaatg 1980
 gggaaagatc gcagaagcgt tacctgggcg ggatttcaa cagtgtatca ttactatta 2040
 tctgaccaag gaagaaatca agtacaaggc caagttgaat aagcgatgga gtcgccgtgg 2100
 gcgtgctaga agatctgcaa gggctcctaa atcgaatgca cttatggccg acctgggctg 2160
 cgtcaaacct gactatgacg gtgaggagga gccacacct gttaccgaca ccggccgccc 2220
 gcgtcgtgca gctgctccga cattcggtgg agataattct gcggatacgg agcagagtgc 2280
 cagcggacgt ctgggtaatg ccgcaaaaga cagtgaacg ggcgagaagc cttcggaag 2340
 gcggtgagca cgcggaggga ctggcgctcg cggnggccgc agaggtaagg cagctcagca 2400
 gcagcagcag cagcaacaac aacaacaaca acaacagcag cagcagcagc aacagcaagc 2460
 ctcagtgcc aacagcaag atcagcccaa cctaacgacg ccgactgtat cgaccatctc 2520
 ggtaccaact acagcaatca caccaatggc tgctattgca aattccgatg tcccggagat 2580
 ggggtcgga gcggatgctg atgctggtgt tgtgaggttc aaggaccaac tagaggatga 2640
 ccgtgtcgag atgccccac gttcaaagtc tggcaggggt cgccctaagg atgcggtata 2700
 tgctttcgag ccttcagaaa cagagagcac gacagtcacc cctgtcaatg gctccgtccg 2760
 gtcggcgag atgagctaca acacgccacc gacgaccagc tattggtcgg ttctgaggt 2820
 ccgcgatttc ccattgctcc tagcacactt cggcagggac tttgaaggta tttctaattt 2880
 catgaaaacg aagtctacac aaatggtgag caacaacccc ttaaccgaat ctagcggaga 2940
 attctgttgc tgactattca ttgtcatatt caggtcaaaa actacttcca acgacaaatc 3000

gatcatggca agaaggagct tgaggagatt gttgcgatg cggagagcaa aaaggcccgg 3060
ggtgaacctc cgaacccgtt gccaatcaaa aacttcacgt ctaaacgtcg gtatgaagcg 3120
acgccttcgg ccgttagtat gtccaggcct cttgcgccac ttacggaggc gaccccgag 3180
ttggacgaga accgtctcgc gccactgcc agacacactg caatgccttc gcagccaatc 3240
tccctacact ctcgctcctc tcacgagcgg gagcgtagtg tttctcgata tccaccgctc 3300
gcgcaagcca gcagtgcgcc aatagttcct cagtcacccg caatgtcggg ggccgacgag 3360
tcgtcccga cgatccatac ccaacctggg ttgccgccgc gaatgcaggg gccacgctta 3420
ggttacttcg acgagaggcc gccgactgtg ctatcccatg caagttcccg aactcttgat 3480
catcccttat cttcacggca agttgctgtg tctgcgccag atatgacgag gatggagccg 3540
ctgtccagtc aagggttcag gggcgtagat gtgcacggat cgcctttgct gtctagccaa 3600
agttcaacag ctccgccaca accctaccta caacctttgg cacagcccca cgctcagacg 3660
ccatcgctta tgtctcatgg ctgcactca cgccagccta gtttgacaaa gcctccaaac 3720
tccccacttc agggctcttg aaggcacgag tcagagatgt cccatattcg acgcgattcc 3780
ttggggcaga ggtctttcta tccgctttct gtgcatcacg ttgtggcttc gcagccacct 3840
cccgtcatgt cccgtctcg agatcctctc cgcacgactt tgaaccggg tgaaccctc 3900
gaacctcctc gccagggtgc tgccaagcga tctaacatta tgagtattct aaacgatgaa 3960
cccgaggagc cacaacctaa aaagcgggtc gcaagcgatc aggcttcctc cgtcactgga 4020
actgctgttg gctctccctc gcggcctgtg tacactggag gatcttcact tccgcagtca 4080
attcgacaag aagagcccat actctcgact tctcagcaaa aaggtccatc ttatcctcaa 4140
caaagtcctt atctgccgcc ttcgcgcccg tattccgagt atccctctta caactcaacg 4200
acggcgacat cgggaactgc tgggaacact gattggctag gtcgattcga tctcagaggt 4260
caacagcaat cccaacaacc atcctcggct cctccgccgc ccagcagccg tccacctaca 4320
actctggcct cacaaccccc atactcacct tttgcctctg gtcaaatctc gtctagtcag 4380
ctatcaaata tcaatgtccc gtccctgtg ccaacaccgc ctccggtgcc ggcttctcag 4440
cggcagccat accctgcttc tgtttacgcg ccatcaccag cgccacatcc ccaggctacg 4500
agcgcgggat cacgtgatgt gtcttctcag ggatccatgt acaggctctgg cattaactcc 4560
ccaacattgc ggagtaatca tgtcacatac ccatcgcggt cggggctctc ctcgacatca 4620

tcgtatggtt cggcaacaca gacagtgccg acttctggac atatgccagg cacgcctcaa 4680
 caacattcaa gtgggcctcc ggcatatcag cacatgcaac ccctggtcgc acatcagcct 4740
 cagcctcatc gaccgcacat gggcctagcc ggagcacact acggtcgcag cacgccgccg 4800
 ccgcaatcac aagcgtccag aatgccgcct cttagcgggtc ccggatccca acagataggt 4860
 cgttcttaca cccctccggt aatgctgcag ccgaactcgt caggtgggat ggcctatgca 4920
 ccaagtgggc ctgtgggttc ccacctctt ggagcacggc cggcgggacc tggctctctg 4980
 agtgaatcga tgtctgggcc gcatggaggc tcggctcata atcgggttta cagtcaagga 5040
 tcgaatccgt ttcccgacc gttaccgtct cagcattcca gtcggtgaca tggaaatcta 5100
 taccgccata tggtgggaaa gatatgcatt gaacgatgta ttataggaca ctcatataac 5160
 tcatacattc cctttctcac ggagtctcga ggtttggccg gatatgtttc atagtcatga 5220
 gttaatgtac agtagacgac tcaatagaat cagtgactaa tggtcaacaa agattactga 5280
 tgctcactgc agtgcggtgt tggcctcggc gaatgtcatt gtgcctttca accctggcaa 5340
 gaaaaacagc accgatcctg atcaaacagg atatgcttcg ctgtcttcat gtaggatgat 5400
 catgacgcag gacaagagac cgcccaacgc gtcttaggat tctgtcggag tcttcggagt 5460
 ctcggttcc tgccttggtg agcttgacag tgctaagggt aggataagat gaacgttata 5520
 ttggcggtgt ctttactatt aactcctcca gttctggtgg ggaagggcgg tttctcttgc 5580
 atcgtatgtc tataaatata agtctagatt attttatcca gagagcggcg acattttaat 5640
 gtattgcggt atctacccta aatacagtcc cagcaggtag ttcaaggcat actgcgcact 5700
 atgctgactg atccaagcta gtgatgtcac ataatgagcg gcacaggaat cgaactgttg 5760
 catcatctct ggatccccag ccaatctctc agcaaacgag attctttgcc tccttttctg 5820
 cagcatagaa tcgcttatca tatgctctcc gggtaaccgc ttactcccg cagtaaccgc 5880
 ccttgatcca ccaccccat cgcttttttc cccggttccc ttgttcgca tgatgtcgtg 5940
 taaacctggc gttgacctc gaatcgctgc ggagcccatc atgttcttgg ccggtcaatg 6000
 acagttcgca gatctttggg atctgactcg aatgcatttc gttgcataac ttctcatgaa 6060
 atgattgcga ggagctcgta atcacattcg ctgccgtggg caaagagata gctggttccg 6120
 cctggtcagg atatgacgtg tgtccgcgtt atgagtcctg aaccgcagag tacactatcc 6180
 ataacatggg gtaaaacatc agatataagg gtggagtctc gctcgttctt gggaatggga 6240

ctctcaaccg tggagactat tctcaattgc agcaatcact ggcagttctt ttccagtgac 6300
 caagctgagc ttctgcccta atattcatat atcctgaccc tccttatttc cactcgacat 6360
 ctgcccgttc cctcaccggg gttcttatag acgtgcccg c aatatggcgg tcgaagacga 6420
 tgcccagaac cccctgcata cgggcattta tgagaaggag aaacagcata ataaggaaga 6480
 gcggacaaat ccatccgaac agggcgacaa taccacgcc gaacatgctt cgcgatcatc 6540
 cagagacagt gactcctacg gcaaaaccag gccggatgga aaacgagagc tgacggagga 6600
 cgaagcgtac gatgcgcttg ggttctgctt cccgtggtat aaaaagtgga caatcctcac 6660
 cgtcatcttt gttgtgcaaa tgtctatgaa cttcaacagc agcacttact cgaatgctgt 6720
 ttccggcctg acagaggagt tcaatatcag cgcgcaagca gcgcgagtcg gccaaatgat 6780
 tttcttggtc gcctacgctt ttggctgtga attgtgggca ccatggagtg aggagtttgg 6840
 ccgatggcct atcatgcagc tcagcttgac gtttatgaac atctggcaga ttcttcggc 6900
 cctggcccca aacttcggaa ctatggttgt cagtcgtttc ctgggtggta tctccttagc 6960
 tggaggctct gtgacgcttg gggtgagtta tcatgatcct cgctgacggg acgttgaaaa 7020
 gactgtcaga ccttcatgat gaatagcaaa agtagcagag agaaatatgg ctgactttcc 7080
 gcatccagat gacggctgat atgtgggagg ccgacgatca aggctttgcg gtggcatatg 7140
 tggtaacttt ctcagtgggt ggtacaacaa tcgggccctt cttcggtggt atgatggagc 7200
 agtggctgca ctggcgctgg aacttctgga tccagctcat cattggcggc gttaccacgc 7260
 tattgcatct ctccctcggt caggaaacgc gcgcaactat cctccttgac cgcgaggcca 7320
 aacgccgtcg caagtccggg gaagacccca acgtctacgg cccaatgag ctgaagtccc 7380
 caagactaga cttcaaagag tttcttgctg tctggcgccg accctttgaa atgttcctcc 7440
 gcgaaccgat cgtgctctgc ctttctttgc tttctggttt ctctgacgcg ctaatcttca 7500
 cctccatcga gtcgttcgct cttgtcttca agcagtgggg gtttgaccct ctgaggatcg 7560
 gactctgctt tgcaacgatt atcataggat accttgtggc ctacgcgatc ttcatcccgg 7620
 acatctggcg tcagcgcaag atccgcaagg agcacggtaa tgccgcccgc ctaccagagc 7680
 gtcgccttct actccttctc ttcacgcctc cgctagaagc catcggattg tttggattcg 7740
 cgtggaccac catggggcca gagtataatc actggattgc ccctctaate ttcatgttcc 7800
 tgatcgcaat cgccaactat ggcatttata tggcgaccat cgactacatg gttgccgcct 7860

atggcccgta ctccgcctcc ggcactggag gcaacggttt cgctcgtgat ttcctcgccg 7920
 gcttatctgc catgtacgca acgcccattgt acgagaacat cggtaggccga ttgcacttgc 7980
 agtgggagcag tacgatcctc gctatcttgg ctatccttgt cactatccct atctacgtct 8040
 ttacttgaa aggaccgcag attcgggaga atagcaagtt tgctcagacg ctggcgccg 8100
 accgcgcccg tcacgagggg agaagggcca gctatatgag tgccagagaa aagccctacg 8160
 cggcatgata agactggctg tattgtaaat ggggatatgg atataacgga ttataatgct 8220
 tgtactatac ttacgaacat agcgaattta tatatttatc cactatatac ttgactcctg 8280
 cgccacttct cacttgcgac ctgaattaga ttttacagag cactacgtac cttgtagtct 8340
 gctcattaga cgtttatttc tttcagcgta tgctgaata tccacgtcca gttgggctga 8400
 tatgatggtt atcttcggtg aggtcgggag ggagtcata cactttccgc tgtgggctta 8460
 atcgagcaat aaccgggaag cgcggaacaa gtcccgaat cccgcgctgt aagcatcctt 8520
 tactttcca gctactctta ctatgtatcg taatgcctca atactgaggt actttctctg 8580
 tcgcaagcgc ggatgacgcg gacgacacac ccccgacccc ggaaatgtac cgtgcaccgc 8640
 aagcagcatc agacgtcgat taacgtcagt cgtggccgac cagccagata taaaggccgt 8700
 ccttagacga cttgatctta ctctggtttc taaaagttca ctgattatcg caaggatatcc 8760
 atgtctcttc aaacaatcgg gatcgccact gtcgcggtgg tctattttct catccgctac 8820
 ttcaaccgca cagacatccc aaagatcaag ggtctccctg aagttccagg cgtaccgatc 8880
 tttggcaacc tcatccagct cggtgaccag cagcgaccg tagcgagaa atgggcgaag 8940
 aaatttggac ctgttttcca ggttcgcatg gggaataaag tgagttcagt gtctgcattt 9000
 gtaacagacg acaatattgc gagaataatt ctgacctaac acagcgcggt gtcttcgcaa 9060
 acaccttcca ctctgtccgt cagctatgga tcaaagatca gtccgcgctc atctcccggc 9120
 cgacctttca caccttcac agtgtagttt ccagctctca gggattcacc atcggaacgt 9180
 cgccgtggga cgagtcgtgc aagcgtcgtc ggaaggctgc agctacagcc ttgaaccgcc 9240
 cggctacca gtcgtatatg cctattatcg atcttgagtc gatgtcgagt atccgggaat 9300
 tgctcaggga tagcggaat ggaacaatgg atatcaacc gacagcgtag ttccagcggt 9360
 tcgcggtgaa cacgagctta acattgaact atggaatccg aatcgagggc aatgtgaacg 9420
 atgagctttt gcgcgaaatt gtcgatgtcg agcgcggggt gtcgaacttc cggagtacca 9480

gcaaccagtg gcaggactat atcccgtcc tgagaatctt cccgaagatg aaccgcgagg 9540
 ctgaggagtt ccgggtgcgg agagacaagt atcttaccta tcttttgat gttctcaagg 9600
 atcgattgc aaaggaacc gacaagccct gtattactgg aaacatctc aaagaccctg 9660
 aggctaagct caatgatggg atgccgtccg gtccgtccg cgcttgaagg aaaataaaga 9720
 ttaacagagt ctagccgaga ttaaactgat ctgcttgacc atgggtctccg ccggcctcga 9780
 tactgttccg ggcaacttga tcatgggcat cgcgtacctc gcctccgaag acggccaaag 9840
 gatccagaag cgcgccacg acgagatcat gaaagtctac ccggacggcg atgcatggga 9900
 gaaatgcctg ctggaagaga aagtcacctc cgtcacagct ttggtcaaag aaacgctccg 9960
 cttctggact gtcatccca tctgtctgcc tagagaaaac accaaggata ttgtctggaa 10020
 cggagccgtt atcctaaggg aactgccttt tgcattgtac ctgagcaca tccacatgtc 10080
 atatagacaa tactgattta ttatgaag 10108

<210> 5941
 <211> 16721
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5941

tgggtgcttat tgctttgctt ttgctctgga aatcacggga aacgatgcaa taacacaaaa 60
 agccttattg gggaaagcaa tcgggctcta aagtttcagc tgaaaagaga atgtcatcct 120
 gagatctgtc gacgcgtgc aatgcagact ttgctcaa atgtcttccc catgtcgtat 180
 acgacttccc cgcctctgca agcgtgcta cgaaattact atacgtctcc atagcaccgt 240
 tccagtccgg tcgatacgca gatcctgacg gctccgcac atcgtgaccc gtggacgctg 300
 aacgtaatag caagtcgggc atttgctgtc tctttcttct ggtgagcatg cgcacgcgcg 360
 ttactgaggg cctgagctca gcagacccc gcccggggc ggttcgccct ggtttctatt 420
 ttgggtacaa atgtccccta gcattgtaga ggtcggctat gcctttgtaa atgtctcttt 480
 tcttcaacca gttcaaccag gagccttggg atctcatcta atcgtcaaag ctggcttgaa 540
 gcaactgaaa actcctggaa agccccgtcg gcccaaagac accgttctag tccgccggtg 600
 agcgtcgagt agaacgagcg tgggtggcgat atgatagcaa agaaaagaag cgaactagcc 660
 tcatgtgggt cgtcaacgag gcttgtcact tgctttttca atatccaggc acccaagcga 720

tagggccgaa gagggcttgg gtagttgcaa ggcagcgaga tgcgaaatac agtatgaaga	780
tcagaagatc ctagcttcat aagatttggg ccgcggttgg tcgattggat cagaaatact	840
gagcagacaa ggttgacgtt ctggagagag ctaggggatt gtctttccct gaccctgcct	900
tgacttcttt agacctagta ttctttttgc gtgtttcttt cttaatctgc gtggaggatt	960
ccctgcgatc attgcttcgt cctctcttca agacttgagt acttgaatac ttgaatacgt	1020
tactgcagc ttgttgcttt aacgaagtca tcagtaacaa attgactaat agttctgcct	1080
gccaactca ttagagcaac cacaaggtg cattgcctct ctcaatgctc tgccccgcat	1140
tgtgaattgc aatgtgcttg gaagatgcag aattatgtaa aaagatattg gaagccatcc	1200
aattcttcca aatactgcgc cggctctctaa tgtaccagtg gtgtgccaca agagtaccta	1260
aactgtgcag tccttggggc taaggctcgt aagcggtgag cagtgaggac agtgtgggtc	1320
catgttttcc cataataaac gaccagctgc cgtttggtga caccgcttcc cccatatgtc	1380
agcatttctt gaccgcgtca agctcgacgg atagtcaatt gctgcagttt taacagactt	1440
gcccttcctg tcagagctca gttgtaagac gtataacatc acgctgattc gaaatcatgg	1500
ctgtcgacgt tggatcatgtt gcgtcccagc ttgtgtctac ggatcgact cgagaaccgg	1560
gtttcgatcg attctccttc gtccctttcc tacgaaagag ctatggcttc ggctcgtca	1620
ccgacgttcc cgtatgcaaa gcctacagcg aaggccactg cccattgggc cctgcttgtc	1680
cagaccgaca tccgacaccg tcgcgagtaa ccacatccac gaccacggcc tccggtttgg	1740
cgccttcaac cacacatggg tcaattgtct gcaagcactt cctcaaaggc ctctgcaaaa	1800
agggcataaa gtgtgaatat ctccacgaat acaatctccg gcgcatgcag aatgccaatc	1860
cttctcccgg tctgggtatt gtccaatgg ggacgactgc ctgtaccagc atgtccggga	1920
gcaggcgcgc ctctctccgt gcgagcatta cgaccaggga ttctgtccac tgggcccgtt	1980
gtgcgcgaaa cggcatgttc gtcgtgcct ctgccatac tatgttgctg gatattgtcc	2040
tgaagggccca aactgtgcga acgcccattc tcggtggtcg gagaatctac ccaagccaac	2100
aatacgagta gagaagacgg aagaagaatt ggagcatgaa agaaacctga tccgcgaaga	2160
gcaggagagg gaacgggaaa gagagcgtga atggaggaac gaacgtggac gcggaggctt	2220
tgggatgcgc ggccgatatc gcggcagagg acgaggctaa tctacacggc tacggtgact	2280
ggatctcaca tataactcgaa gtctacctga ctcaaacaac gttcgtccgg ctaaccggct	2340

tcactcccg	tgaccgg	tta	ttcag	tctac	gcggaagaag	cacgttcttc	tgaggatata	2400
agcgcttcat	gcgtcggatt	cgaatatctg	agcccattat	gtagcatgga	cttgc	catgtc	2460	
aagcttatca	gttacacaag	cagcg	tcgga	acatattgag	cggaaaggac	attccaagt	2520	
gaatagcgaa	tcttgatacc	accgactaat	gctgtacacc	cttcgaatat	cggacgctag	2580		
gactctgacc	atggcagacg	ctgttactgc	attgcgaaac	aacctccttg	tcggtatata	2640		
gctgttgctg	atacctccct	tgaatacgaa	gtatgtttaa	cgattgagag	gtcgtggatc	2700		
gactgcatta	gttctcgaaa	caagttagac	tgctatgcga	cggtcctcag	aagcgcg	gggt	2760	
ggccaatgat	tctcaggaga	ctttcatcgc	acttgcttct	gctggctcct	tcgacttgat	2820		
actgaaccaa	gaccttggcg	tgctctcatg	cacaccatgt	aatgtcagca	ctagccttgt	2880		
atatctacgg	ttgcaagttt	atcaagatag	cgctatacca	gcctactatg	ctctgttgaa	2940		
cttacacggg	gtgtcgtcca	aattattagtt	agtcaaagtc	tggctaagaa	ataaaaaaga	3000		
atgaaaacta	gttcttttgc	aatagattgt	ttatggctgt	ttatggctga	gacaggagag	3060		
tgtttggtga	gatctgggta	cacgg	tatgc	ggagacggag	tagatgcgga	aagaccagtc	3120	
tccgtacact	tccatgactt	tcgaccaaga	ccaactctac	gctgatgtcg	tacacttg	3180		
tggcaa	atcg	agccggtaga	tcacgaaatt	agcctgcttt	gcagcgagta	tgatcctttg	3240	
tattccgtaa	atccgaaacc	ccctccagta	acttgcgagg	cagagagacg	ctggagcctg	3300		
cagtccaaaa	aagctgctta	agccgtgggt	gaggcatcag	acgtaccata	cccgcagccc	3360		
gcgcattt	gt	caagtctctg	taagacggta	ctaaggacga	gcaaaatggg	gaggatccac	3420	
ggattgtctg	cattggccaa	tcagcaatag	tcaatcgcat	ctgtaatcga	tgacaaaagc	3480		
atagagctcc	catagctaga	attaactaat	ccccctctc	cgattcttat	aaagtatttt	3540		
gtctgtccgt	ctaatactta	tatcctttca	gactcaaata	cataccaa	ac	ttctcactct	3600	
tctcatttta	tcttccaatt	gaagcccaaa	cagtcacaat	ggctcccaag	atcgccatcg	3660		
tcttcgtacg	tcattcagtt	gcattgcttt	acccgcaacc	tgtggagcat	atactaacga	3720		
atggttttgc	tatagtactc	catgtacggc	cacgttgaga	agctggccca	ggctgaactc	3780		
aagggtattc	aggccg	ccg	tggtaatgcc	gacctctacc	agatccagga	gaccctgcct	3840	
gaggaggtcc	ttgccaagat	gcacgctcct	ccaagtcct	ctgtccccac	tctagagaag	3900		
cccgcagcgc	ttctggagta	cgatgccgtt	ctcttcggt	tcctaccgc	ttatggtaac	3960		

ttccctgccc agtgggaaggc cttctgggac cgcactggtg gtatctgggc tactggtggt 4020
 ttcttcggca agtaggtaac acgaacagcg gggaagtaat ggaagtcatt gacatctcta 4080
 tccaggtacg ctggcctggt cgtctccaca ggtacccttg gtggtggcca ggagtccact 4140
 gcgatcgctg ccatgagcac cctcaccat caccggtttcc tctacgttcc tcttggttac 4200
 aagactgcct tccctctcct ctccaacctc gaagagatcc accggtggtag cgcctggggc 4260
 gctggtacct ttgctgtgcg ttttatttct tcaatggcga tgtagggtta tggctaactg 4320
 tgtctctagg gtgccgatgg ctctcgccag cccaccaaac ttgagctcga gatcgctgag 4380
 actcagggca agtccttcta tgagcacgtc tctcgtgtca acttcgcgtg actacatgga 4440
 agcaccgaag ttgagtctca agccaagcct gctcagcaac agacaactac acccaaaacg 4500
 gagaagcaga acagctctga agcgaagaag tcagagaagg acaatgaggg cggcccttgc 4560
 ggtctgccta agaagtgtaa catcctctga ttgacttggc tatataccca tgcttgattt 4620
 ctcgtttagt ggtgttattt tgtttcttga tggaaaggag acttgatgat tcatgaattg 4680
 gctttagaaa ataatgacat ataatccatc catttcttat atattctcat aggttctgat 4740
 atgctggatc ccaatgcagc tattatacaa gcagtcatt attgtacaga cataatggtc 4800
 atctataaga acttccccct cgagaacctc gatccaaaat ccgctgcttt actcattagc 4860
 tcccttcggt gcgcattcgt aagcttcgaa gaaagcgcca tatctttctc cttatcaaag 4920
 gcccttttac tcgggtcctc ttcgtcctcc ttttccccct tctccttgct cttcctcttc 4980
 ttctcctcga ccagtgcga cgcctcctcc cccctcactc gctcattata ccgctgaacc 5040
 ttttccctca ttgctgcgc caccttatca tcgctctcg ccccgacccc ccagcatcc 5100
 ggcccagagg acgaggaaat cccattgct tcacctgca accgccttat cttctcctct 5160
 ggctctcag tccacgagct atccagcct ccccgctcgg cgggcgcatt tccgacccgc 5220
 ggccgctct ggaacttccg atttcgtagc tttgtagggt ccacccgcga ccgatctgag 5280
 ccgccagtgg gcggcgcaag catccatgcg tctcgtttgg gcgccggctt tgattcaact 5340
 tctgatatat catgtcgaga aagtgattgc tctggcgctg gttgttgcgg taccgagccg 5400
 gatggtggag ggagactagg accgaagtca tcacgtcag agtccgagtc tgggttggtg 5460
 ctactgtcgc tgtgattatc agtggtggaa gtgggtggtg ggagcgatgg cccgattact 5520
 ctgcggcgct tctcggaagc attgtctgtg tcccctgtcg cggccccagt tgttgcgctg 5580

tggctgagct ttcgttttga agggttatcc atgggtgtaga tgtgaattat aggctgtata 5640
 gtgcaattca ccgcggacta taaagtagtg acaaaggagc tggtgcaaac taatcaaaca 5700
 gagttaaatc aaggcgggtat gataggcggc ggtaggtatt tgcgcggcaa aaagcagcag 5760
 ccattacgac atgaactgtg ctgacttgac ttagtttcca ccatcttctg ttgcctttcc 5820
 tgcatatgtc ctctacttct cagaaattac tcaatctatg gaatgagcat aagtgagata 5880
 gacataattc tcatectcta aacacctcta cagcacccta cccatacccg tcgaactgcc 5940
 gccatgacat ccgcacgat tattctgaga ttcgagagtc gaaacggcca gtttcgcctg 6000
 aatgtcagcc cacaagatat gttcccatct ctagaaacaa aggtatgact taatattact 6060
 ctataccctg tttgggagcg aggtcgtcgg aaaatgctga gttctgagct gtagattctg 6120
 gagcatcttc cccagacac cgaaccatct tcgatcaagc tttccaacaa accaattggc 6180
 gctgctggtg acgagcgttt cttgaatact ctggatggag tgtcttttga gcaagttggg 6240
 cttaggtcag ggtaccaatt gcaggaagcg gacagtcgct gatgctggga atctaggcac 6300
 ggagacaagc tctacatcgg ttatcaatca aagcaggatc tccaagatgg tgccagtaat 6360
 gggactgccg ctggctcgtc cgctaggcgg ttaaacggag ctctataaa tcaagagatt 6420
 actcccactt cagcagcaca agccgacaga gtcgcctccg ttactgtcaa gaaccctggtg 6480
 gatgctgtta ggcaatcggc tcttgacgac cgcttgaga agaaggatgg gaaaattcat 6540
 cgttctcgcg ataacaagat gtgcaaacac agtgcggaagg gcatgtgcga ttactgcatg 6600
 cctctagagc cgtacgacct gaaataccta gccgagaaga agatcaagca tctttctttc 6660
 cattcatatc tgcgcaagat caatgccgca accaataaac ccgaactcaa aagctcattc 6720
 atgccacctc tcagtgagcc atactataga gtaaggacaa caggactaat ttgagaggat 6780
 aataagtagg acttaccat ttgtctcact tttgatccta tgtaggtctt ttgcacactc 6840
 ttcacaaaaa tactcatcag ggctcatagc ctcatccata atccccacac agccaccatg 6900
 ctgccagacc ttgcatgaat cacattggat gaacatgctg ccgatatcat ctgacatcag 6960
 gtctgacgag tccagagacg aatctaaagg attctcatcc ttgatccac tccgcgcccc 7020
 attgcgattg agggcctcgc ggcgagaggg tgggaagccca ggataatcct gctgtccgca 7080
 gaggcaccta gtgatttctt cttcatcttc ttcacgaca tcgtcgtcct cgccatctcc 7140
 aattttggag tgtacgtcat tttcttcgtc tctctcgcg cgttggcggtt ggcgcgtctc 7200

ggaaaatcgc ccttgtcggc atcgtcacgc gactgagagc gtggagaggg atttttgtgg 7260
ttcgatctcg tgcttctctc tcgagtcacg gaagctgaag aactggaaga attcgatgc 7320
tgaatcgctg gcgagggctg tgaggtacgg gcacgagagg accgacgggg gctcattgtg 7380
gtggagtggg ttacgcgga agagtaaggā taaaagtgc agaagctggg ataggaaagc 7440
tgtcaacgtc agacggcaga gaaataaatc ccagactctg ccaaatagcg gatgttgcag 7500
gcaggacgtg cccggagaca agtcgtcgca gatgattgag agctgggttc tcgagcgact 7560
cgtgcagacg gaaaaaggcg aacgaggata ggagaggcgg caagataggg agagcaattg 7620
aaacataaat gacaaataga tgcagataga gctcatacta tggccagagg actacatagt 7680
aagcaaaaaa tcaggaagag gggtcagaag acagaaaggc gaagacggaa aggaccagag 7740
cagacggagg gaaatcgctc tttccagtct tggaccgcct tgcctttccc cgctctcctc 7800
accttcgccc gtctccatcg attccgtcca agaacgtaca cactaactgc ctgagacact 7860
gagaacgaaa agctatagct tttgacctgg aagtagagaa gaagtctgag aatcgctctg 7920
caagtggcgg cgctactact ccccatcttg cgtgaaattc cgttacgcac cgtaggagtt 7980
catctttacc agtatcactt cttcgtcttt aatgacgaat atcgtttttc gcttcagcaa 8040
cctttatccg actcctctgc attggctttc aaggctccaa gttggtacca tcaaactcct 8100
tgcccgtcac cttcgccccg cgagctacta ggagagcagc ctgagtcaca cagtccaatc 8160
tacagtgcga tgttcgatcc agcttattat tctgcattat actccccgag aaccttccga 8220
tcctgatggg taatcttgcg acgtaccgtt tagtctgagt tggggctcat agtcataggg 8280
cagcgatgga cgccaccgtt cccaagtctc ggcttgaggg actacaagga agcatgaatt 8340
cacacgagga accatcccag cgcatagtct aaaatgacat acattgcac gtaccgagaa 8400
acccggcaga cttattggag tcaaatttaa gcatggcttt aaaaaatggg gtacatctgg 8460
gtttcatgat tgtatgcgaa cggttgcaat tcggtcacgg ctgtagcttg agtagcagcc 8520
ttaagaacgg tactggacaa tatttgaaca aatgttccgg tgctatgccg cagccactac 8580
tgtgggaggg aaatcgaggc catataggta agcttggaag tagtaatgac gccttgctcc 8640
taataatagt cgcatatgat gtatagcagc aaatatatca tgcaccttga aactgaaact 8700
ataatgatat ctgcagaatt atatgcgagt tgaagtggg actattgtag gtgcaggacg 8760
gattgcccta gaacaatcga cgctcgcgtg cctgaggctg acagctcgtc tctgggggat 8820

ttgtaaggaa tcagataaca gattattcag tccatacttt gtaaagaatt ctcagatcat 8880
 tccagttatt tattattcta cgaaaacctt caaagcatga acgcttcttc gacagtttga 8940
 tatcgattac ctcgtttctc attgggaacc ccacgtctcc gttcgcttcc accgcctccc 9000
 actatctggc ccccttagtg tacttctcgt ctcttttccg ctccgttttg tcaggtgccg 9060
 atcgggtgtc attctcccat cagaaaagtc tgcttgggac atgcttgggg gacagctcag 9120
 aatctgtgag tggccctcga tattgacgtc cctcgggctt tctttacttt tggtgcctgc 9180
 cgttcacggt ttgtcggcct tctcccggag tgtgccgtga accgaattgt gccctccact 9240
 ttccagcagc acaactacgc ctgtggccaa caagctgact ttgaatggta cctatttcag 9300
 gacctttgat acacctctc ttccttata tcgagagaca cttgcggaat ttccgacttt 9360
 gtatagttca agtgggtgac agattgtcct cataggacta cgaacaagtc ctgggtttaa 9420
 aaagagaagc ggcaacctag aaacctggag ataaacctgg gaaaccgtta ggctggacta 9480
 cgagacaaag aaaggcccta actggctgcg gctgtggagg tcgagacatt caaaagtttt 9540
 gcacaatggc tgctacgctg agtatgttct ctcgtagact cactcaaagt agttccact 9600
 gtgcaatcgg ttgattgtcc gtcgggaatt ggttgagtt cccagagaac ggagactggg 9660
 gagaaatcag aggagtgtga tggtcgttca gttgctgata ctgtcctcct gcagatgggg 9720
 tgatttattc ggccccagat acgccgtcgc cagtctatcc cgatagactg atccgtcccc 9780
 taccaaagcg tacccttcgg tcacggttgt cctccgatgc ggccgattcg atcctctacc 9840
 ctctgcgcc accggcaaca cagcttttct acggagcttg tacgaccaat agggatgctg 9900
 taaatgactc caaagtacat gtacaacaaa gtgatggggg ccctgatcta agccctgata 9960
 gtcgggacca ccatattccc tatgaaaatg gtgttgactt tgacagtggg gacgaggatg 10020
 gaccggtggg tgtacgacgg agcaccgat ttcgtggatc gtccctgtcg cctacgcctt 10080
 ccaaagtgca gcaccaaact ccaggcatag ggaaggaaca atcgacaaa tcctctccga 10140
 ccggtccaga cgggtacgat gcctttgaga aactaacia caagaagaag cggaagattc 10200
 caacgcctgg aaatatgggc agtcaccact cttctttgtc accagaattt gcaaccatgg 10260
 cattagcgaa ccctggacaa caaggttctg catcatctgg agaagggtgg catgtcagca 10320
 cattctacgg cacgggtagt cccgcgtcac ctgtgggcag tgggatgtct gggtcgggca 10380
 gaggacgtct tggacgtcaa gggagacggt catcaatata tggacacatt acttgggtcgt 10440

cacaaaatcg tgggtgctggt cgtcgagacg gaccgttgct cccccagga ccaacaggta 10500
cgctgcatcg ttgtcccact tcagtttctt gctaactctg tactcaggcg agtccggcgc 10560
gcgtaaccaa ggtattatct ccgctgcgat cgcgagtgt gctgcgtcag ctttctcacc 10620
atctgcgttt aaaacttctg ctcaaggcag catgcttgaa cagcagacca ccccgacgag 10680
gaccagttt actttcacct gcgaatccga ctggtctaaa gggatggcct tgcattgcga 10740
aaaccgcac tcagctcagc agcgggtcgcc gatcgccgag tcccaacaag ggaacaacc 10800
ccgaggatta tctacgcaag gcacgcagac cagtcccact gtcacagcgc agatgagcca 10860
gcaatcaaat cccaacaac aaccaccacc atcacatcaa ccacaggcgt ctactgaact 10920
acctgcggaa cgcaagaaaa agaggtcacc tggcagtatc tatatgctgg ctgcccgtca 10980
acgaaaaatc caacaacaat acgcaaact ccaccaccg cccagtctcc aggacatctg 11040
gatctgtgaa ttctgcgagt acgagagcat atttgggcga cctcccagg ctctcattcg 11100
gcagtacgag ataaaagatc gtaaagaacg caagcggctg gcggagaaaa agagacttct 11160
ggagaaggcg aagatgaagg gtcgcaagca taagaaggca ccaaaaatg caacaaagca 11220
tacggctgct cagcatgcag cgtatgatca tggctatgac cgggtctctg tcgatcattc 11280
ttcggtagga gaaggaccgc accacgatga ctggggacat gaatacgaca atgaagcgac 11340
aaccgctggc ccaccggcta cccctgaagg gactttcaa tcaccgcttc ccccggaag 11400
cgcgccaag aagcccaactg cggcgccctt gggcggtagg ggtgcagtag aaggaggatt 11460
gaaaccaccc tgatattagt cgaagaatct tgccttgggt atgtcttgca tcattgtttt 11520
cgcttttgat ttatagttct ggtctctgca tgggtcaatta gccttttgct attttacaat 11580
cacgaatccc cgctcccat tgtttcttga tgtgtcatgt caacaaccag catgattcct 11640
ttcaggtgca taggtcaatc attggttgga atgtctccg gtgtttggtg aagatgttg 11700
agttagagcc tgggtctcatg ctaaggtagt ggcacaggct agacatgtag cgtagctgtt 11760
ctatgaatag gactaatcaa gctatgttta atccaaggct accggcggct aaattacatg 11820
attctcatcc agtcgactga gcctgcagct tggccccgcg acggcgcttc cgcgccacc 11880
accagcgact ccagcttgct gttggcgcgc gcgaaacacg acaatgaggt gtttcaggac 11940
gacacctgga cagggaatca gtggttgca gtctctctg tgttactgcc aacagtaaga 12000
gcttgacgcc tcccaagac tgtagaaagc actttgtata ctgcaacaat gatataaagc 12060

tgaagaactg ctgcagcttt ttctttccac ccaatcctcg gatccgtttc actctctaga 12120
 ctcgatttca tacctttctc tctctcttct ttgcttcagt cctataactc ctgcgagggc 12180
 gcatcatacc agcagccctt ttttgctgca tttacggtct tccctttaa cctctataga 12240
 ctctgcaac tgctcttctt ctcatctctg ccatttttga agtaggcaca actaatcgtc 12300
 gcacctgcct cgacctaaaca aaacaacaca accgctgcct aagttataac agccctctca 12360
 cttcaatcta atgtggttcg tctcttttaa aatcttccgc ttcggttact ccgagaccaa 12420
 aaaatacaaa gccaaaaaag ccgctcaaca gaatcccggc gtcggccaga acccgcaatt 12480
 ccaacaacca ccgttgccga acccctacat cggcggtaat acgaacggcc ctacagatcc 12540
 tggagctgga ccagaacaat acccaatgga cacctatcca gccctccgc tccccgggca 12600
 gaccccgga ccggctatga gcaagcgcgc caaaatcaaa gcgctactct caacagccct 12660
 cgcagtcgtc caattcgcat tggccttgc cgtcatcggc ctgtatagtc aggacattaa 12720
 caccgcgcgg gataatggag attctgctcc aagccggtgg gtgtatgctg tcgtgacggc 12780
 attcctttcg acagtacag cgttctctga cctgggttctt ggctgggtgg ggaagaagcg 12840
 ctggaagccg agtttcagcc agcgggctgg gctgtttttg ccactgttcg cgtgggagag 12900
 tgccttggt attctgtggc tegtgtctt tgggattttt ggcgaaatgt atattggcgt 12960
 ttaccatggt ggggggaagg atggtggaga gagcaagggt acgcgcatga ggagggcgg 13020
 ctgggtggat cttgcttgct tagttctttg ggtgctctcg ggggcttga ggggggtaag 13080
 gtggtggaag gctaagggga tgggacagg agtagggttc ttcagaaggc gcgcagatgt 13140
 tgagagtggg gagaaggaga tggcttaacc ctttttcac ctcaaaggag aagagaggac 13200
 gcacaatggt tatatggatg gtggctggc cacgctgcag tgaattagg ctttgcttta 13260
 tttgtacttg tccaaggagc atgtatgctc ttattgtaca ggctcgacgg ctacaggtgc 13320
 attatcatcg tcatattgaa gtggtatcga actcaaaaca aaaacattta ctgtccctta 13380
 tccgacctct cttctcggg tcccgtagta gtcagcttcc ccatttctg actaaccata 13440
 ctgtgacgac tctgttcaat taaaagactc aaccgcctc gtccacgtgg cagggataga 13500
 cctggcggcg tcgagaacag atttctgtt ccaggcactg acatcggcac ggccatggcc 13560
 gatgtcgtg cattcgact ggccttcacg gatccatatt gatgctcgtc ccggtgtcca 13620
 tgttcgatcc caagctcttg gttgcgatca tgtccttgaa tcgacgctgg atccatacct 13680

gtgagcattc ctgttgccgt atcgggcgct tgcgccccgt ggtaaataac cggacccgca 13740
 ctacgcgtcc caccagtcag gatcgaggtc gcaactgtcg atgcgccgtg agactgggta 13800
 tgtgaatgtg agtcgccgaa tcgggatttc gatggcgaga tgggtctcgt ttctctcgtt 13860
 gtcgttctg cccctggact tctgccccca tctacttcat ctgctggatg gagattcgta 13920
 ttttgagcaa agagccccgag agcaacctga ccttgaccct gaccgtaact atcattctgc 13980
 tcttggtccc cctgctccgc gtttctcga taaagctgcg cataatactc atccgcaatc 14040
 ctcttttgct ccgcgaacct ggttcgaaaa tccggcgcca ccagttccga actgttcggc 14100
 tgctcgtaat tctctcggga gagatgccgc acgtcgaagt ggcggcaggc tgttgccgag 14160
 aagaagccaa cagtaggggg agaggcgtgc gggcgaggcg gtggcagcgg tgtgttcttg 14220
 tgcataaggg ttttcagatc ctgtatgaag ggggatggaa gggctggttt ggtcatttcg 14280
 tctggctcga aggtttgttc ttctgagggt aagggtggga agggagccgg cgtagaggag 14340
 gtggaggtag acttgtctgt gattgttgtt gatatcgtgc tggatgtcga tggattcgga 14400
 ttcgggggtg tgatcgggtc tattcgggtg gtaatcattt ctagaggtag ttaaagaatg 14460
 ttcttataga gtaggagatt gacgagttat ggcttaccat caggtgagtc ctccacagca 14520
 tcttcgtcaa gcaccgctgc agtggtcgtc ttgtcattgt cgctgtcgat agacggcaga 14580
 tctccaaagt cggctctgtg agaatgagtg cgtgtagaag agaccgaaac cgaagactgc 14640
 tgcgacgact tgcgtcgcat taacacaggc cggcgcttg gagtcttcgc ttttgccttg 14700
 ctcgcaacag cgaacgtctt cttctggccg gcgcgactgg tagccccagg agcctgcggt 14760
 tcgccaaca ggataggccg ggaaggagga atgggcgtag gcgggtttga cggtttgccg 14820
 gtaacacttt ggccgccgag gcctgttaga agcagacgag tggctctctg gacttctccg 14880
 tgggacgagc tgttgatttt cttcagaaca ggctgaagcg gcttggtccc gctgttgctt 14940
 gcacctggag ttggatggct ctggcttttg ccgtggcttg aaggcgctg ttgcttctga 15000
 tgctggtgct ggttttttgg gtgttgctca tcacgtttca aactggacga gagcggttcg 15060
 gattcctgca tctggagatc agcaacagtt acagctgcg catggtcaca gggaaaatga 15120
 cgatgtgttc gtgttccac ctttctctcc gtctttgccg gcggcctgaa tgaaggcgaa 15180
 gtgaaagtcg tgcttcgatt agcgggtgtg ggcgtggacg ctggctctga gatttgcagg 15240
 aataagcgag acagcgctga tctgtcaga gagctgctta gacgcttgct gccccagatc 15300

cgccagaaca agttctgcaa gcgatagccg gcatcgctt cgtgggcgga cgggttgatg 15360
 ctgcacgctg ttgacggggt aagtagttgc ttgaatagaa gaagtagtag aaacaataga 15420
 agaaaagcgc acctttccac aactgcacga tatctccaat gtccacgaca tctagatcaa 15480
 gatcatctag cccctctgaa accttttccg aaacagcaat caagcctttg gggagagttt 15540
 ccattgcgac aagttggtgt tgaggcgagc tggactggag aagagcgca gtggattgtt 15600
 gatagcacta aactacatg gtcaagatgg aaagattggg caggtaggc gaggacgaaa 15660
 acgaaaaagg gcagtaaagt gactggcggt gaatagcgaa agggggaaaag gtcagagagc 15720
 catagcaaac gcaggagaa tgaatgaatg cgctgattgt gagcttgag agccttgagg 15780
 gactgcaagg gcagcgagca aagcaggatc cccacatta aaggagcag aaattaacca 15840
 gcggctgcat ctgggaagga catgcagaca gaatagattc aggaacagag tatctagtca 15900
 gaaacaagga tgagaaagaa agaaggacga tagaaggaac ctgtgccttg agccgagtct 15960
 tgccgatggt gccagcagt ggaggccgcc tggcagagtt gagactacc tgggtatttt 16020
 tgacagataa agggctcttg acggggatcc agaaatcagg acacacagga aacagaggaa 16080
 acagatcatg gggatcgtag accaaactcg ataggtcaca gtagtagtgc ggatatgcca 16140
 gcagtagtca gttgatgcga cagccttgct tagggcattc atctgatgat gacattgatt 16200
 agtctacgga ccaagtccac ttggctctac gtccaacggg ctagacgatc acagccccag 16260
 cctatcaaaa atcaccaata aaccagctcc agggcgctcg gaatgcccgt tggggatctt 16320
 gaaccttga actcaccca cactcgctcc atacttcaga ctgaagcaag aagcagcagg 16380
 aaatagcgag aagtagcagg tctcttgcca agacagttag cccgtaagt gtggactgtg 16440
 gaggccgatc aggccatagt cgaccccgga cccgttgaat acggggcact ccagtctcta 16500
 gtgtccagct tgcagcctgc agtctgcaat cgcggaagaa tcccagtatt acatccatga 16560
 ttggagaggg agcccatcca ggaccgcaaa ggctcccgcc taagcaccgg cagccggcgt 16620
 tgttctcca gttcagctc gtctcagctc ggaggatcag aggatcggtt tgtgccgtct 16680
 cactgtgcga ggcccgctcag atcatttcta gccagaaat a 16721

<210> 5942
 <211> 5440
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 5942

gactctataa aggggggaaag cacggaggat aaatttcaag gagaaaaaat gtgaggaggg 60
tgatggacgg tcaagaaggg tggacagggg caggacaga ggcagagacc gaggccgaga 120
tagaggcgag ggaggattgc ggtggatgct cggtcgtagt cgagtgagtg ccagttatga 180
gaaaaggcaa ataaaaaaga gacagaagtc gaaggttgat ggaaagggga acagggcacc 240
tataggcaaa ctcaaggcga taagaaaatc ttctagaacc acgggacctc ctgcaactgtt 300
gactatttga tttatatact gtacctatgg taatgatttc aacggaatca gacgggccac 360
aaacttcaga caaatattg aattgatggc agccagcggg ggtctcccat tgctggcggc 420
tggccgacgg cgtgggtccc tcattacggc caggtaccgt acagaaaaat ctggtatttt 480
ccatctcgat ctacgggctg gtaatagact aagtcgagag gataggacca gcatagctgt 540
caggatcacc gccattcact aaaaggccat ttaaacactc ctggttacia gactcaatcg 600
atgaatatac agagtaataa ttactgagac gctgatattg agtggatgcg gggatatgtg 660
cgtatcagtt gtacctatta ttactattat taccgcacat aagaaggcca ctacagctct 720
aggatttggt acaaagcacc gatcgctcgc gatcatctca ttctcaacgc tcagtcgata 780
atcgagaggc tactagtcga accactgccg caaccatcc aactccggc cgcctcatgt 840
aagactatgt cattgcagag gcaaacgacg ctgcacttg acatgctcgt ggcgttctt 900
agggtcagcc acatttctct gcttaatcca atcgtgttgt acagacggtt agggcagatt 960
ggcttgcatg aggggttggtg gacggcggat tcgggcccga tgggaatagc ttttgacagt 1020
tagagcttat atcgataagt tgcaacatcc agacggccag acagccaaat gccgcgatag 1080
cctgagattc gattctacta tcagcagaaa tttaggtatt agctcgcttc tcaataaggc 1140
cgctggttgt ttacaacgtg ggatacagag tttgattcgg ctaacgtggt tggtaaagca 1200
gctgcgcatg taagcgagct gcgcacccaa ccactttttt acatgctgac gcggtcatct 1260
atcttccaac agccaccatg ccccgagttc gcgttagttc aagccaaaat tgccatgaga 1320
aggaaggctg gctcctactg gctgtacagg ctattaaaaa aaaggagatt acatcaatac 1380
gcgaggcagc acgtcgcttc aatgtgcctg aatctacact acgtacgca ctacgcggga 1440
ctacaaatcg cgccgaatct cgcgcaaatg gccataaatt gactgagatt gaagaggaag 1500
tgcttaagca gtggattctc tctttagatc tacgcggagc agctcctaca aaagctcatg 1560

tacgagaaat ggctaataatt ctgcttgcaa agcgtgggtc caccccaatc cagactgtcg 1620
 gccagaaatg ggtatataat tataactcaac gccacccgga gcttgagtct cgcttggtcaa 1680
 ggcaatacga ctgccagcga gcaaagcaag agaaccctaaa gggtattcaa gcatgggttta 1740
 acaccgtacg agccacaatc gaacaatacgg ggatcctacc ggacgatatc tacaactttg 1800
 atgagactgg ctttgcaatg ggccctttgtg cacatcagaa agtgattacc aagtcagaat 1860
 catgtggccg aagaccagtt ctacagccag gaaaccgtga atgggttact gcaattgagt 1920
 caatcagtcg ttctggatgg gcacttccac caacacttat ctttaagggc aagcagtata 1980
 accaagcatg gtttacaggc cttccgcccg actggcgatt tgaaattagt acaaatggat 2040
 ggacaactaa tgaaattagc cttcgtctggc ttcagaagca atttatcccg tcaacagagc 2100
 atcgtacgcg cggaagatat caacttctag ttcttgatgg ccatggaagc catcttacac 2160
 cagagtttga tcaaactctgt acagatcata atattatacc actctgcatg ccggcacatt 2220
 cctcccatct tctacaacca cttgatattg gatgttttgc agttttgaag cgctcgtacg 2280
 ccagcttggc tgatcagaaa atgcggcttg gcatcagcca tattgacaaa cttgatttcc 2340
 ttgcagccta tccacaagct cgaatcagca catttaagct ggatacaatc agaaacagtt 2400
 ttcgagcagc aggactagtg ccattgaatc ctgaaccagt gctttcaaag cttagtattc 2460
 aggctcgtac gcctacaccc cctggaagcc gtggaagcca ggcaagcact ttttgccac 2520
 atacaccagc aaatgttgat gagcttctaa agcaagcttc tttactcaga gattttctca 2580
 aacagcgctc aaaaagtcca ccataccgt ccataatgc cctaaaccag ctaattaaag 2640
 gctgtcaaat tgcaatgcaa aagggcatac tattggagca agagaatagg gcgctacgtg 2700
 ctgaaaatgc tatacaaagg cgaaagcgag ctgctacgca tagatggata gctcatgata 2760
 atggtctgtc tgtacaagag gctacagagc tcgaggaagc tcataatgcg tcttttcagg 2820
 caatacctgg tccatgcggg ccaccagcag aaggtgcaca aacaccaaag gcacgggcat 2880
 tacctacatg tagtacctgc catagaattg ggcatagaag aaatgcttgt ccaaataaat 2940
 aataattaat ataaaggcgt tgtggttgat taaaaggcca aaatatggga aatctgtatg 3000
 caggtgcgca gctcgttac atgcgcagct cgcttaccaa ccacgttaca ccctgggtat 3060
 acaggccttc agagagaagc cagagggcag gtcccaggcg gagaacagtt ctctttgacc 3120
 tcatggctct aatatgcata ttacactct ccatttccac gatgacccta agctcgctc 3180

gatccgcacc caaagacaag ccaacgttgc agccaccaac aacacccccta ccactatgcc 3240
agcccgttca taaataaacg acgaagtaag ggcacacctc gggatcaaca tgccggttaa 3300
cggagtgccg ataagcgcgc ccatgccacg aattaaatac aaagcaccat tgacactggt 3360
aaagtgtgc acaccaaaga gctcgatcaa agaggccgga aaaagcgaaa tatatgcact 3420
agcaaatgca ccgtacagga tagtaaacac gataaagagt ccgtcagcac tagacttcgg 3480
cacgccggcg tctggcgtgt gaaacatgga tggaaatcaa aaggcgaaga cggccacagc 3540
gctcagcagc gtcgtgacaa ccagggcggt gatgcgtccg tatcggtcgg caccgtagcc 3600
gatggcgatg cgcgacacga aattagacgc gttgttcaga gtaatgaagt tagccgctgt 3660
cgtgggactg tagcctagcg tgctagcgta cgcggcatag aagaacaacg gggttgagta 3720
tccagccgac tgcagaaaac agcccagagc ctgggccaga aatcgtttag agcgggcaac 3780
gcggtagtgc accatgggcg cttttatcca gccactgcgt cgacgtaggc cctgcgtctg 3840
gatacgaact tgctcgtgga acttgggctc ccagcggaga gcatacccg cgacagagac 3900
gagtgttaag gagatacaac ccgagatgcg gagcgcattt ctaaacccca gatgtgttat 3960
catggctcgg agagcaggag gccaaaccat gcccacaact gcagatcccg agataatcac 4020
gcccattggc agaccacgcc gctggtcgaa ccacgtcggg gcaacgtca tggtaggcac 4080
atatgccaga catgtaccaa taccaaggag gactccctgc gtcaacgcaa aatgccatag 4140
tgctgcca aagctcgaca ggatataatgc aatgccgaaa acccagcctc cggcaatgat 4200
gacagcctgt ggcgagtaga tctttgacca gtgcattgcg aatgggccg ccatggacat 4260
taatgcaatg gctaagattc ccaccagatt gatgagggca gttgagctcc cggtaaaagg 4320
ggtgccttca gcttcggcca tctcttcgta aagagactgg tagactccat aagagaagat 4380
gaatgcgcac gtcgtaaaca tcacagaaaa gccggcggct acgaccaagg catatttcct 4440
agcccatcta tcagtatacc cggcctcttt ttgatgcggg ggtgactcac caggtaggat 4500
gctcttgctc cgcttcattc gtttgcgag aagcagtctg gggagagcca tcggcttctc 4560
ggctggccag ttcaacgacg gaacccatgg ttgtagataa caatcatact ttctagatat 4620
cgacgtttgg aaaaaaagga aaaggccccg tctaccatag tgtaggctga taaaacattt 4680
aagtattggc agtcattcgc cgtttgaggt gcggagtcta ccctaaccat tttgagaagc 4740
catgtttacc ccagccaagc ccatgctccg gcgtacgata gcgataaata tattctggta 4800

gataatatta gacgaatact catgtgataa aaggaaatag tccgggttca gaaagcggca 4860
 gacatattag tggaatggga ggctgggtca accatgtatt aagcttaa at gtaacaagtc 4920
 tatatgcaat cgtcacctat tttcttccct cctgctccaa aaccgctgc tccatcttct 4980
 caaaccctc gacagccttc ccataccttt cgaacgcctc cttctgatag ccgtccgca 5040
 tcttctcaat gaactcctcc tegtgcacc tcgccc aaatcctcg aaggtctgat 5100
 ctttcttct ctcaagcgcc caaacagcct tatacgcagc gccagcgca cacgcattgt 5160
 ctccaatctc aagcttatac acgcctcac taccaccgag gatctcaccg gcgatcttcg 5220
 cgatggctct gttcttcgac ccgcgcgca cgaggtatac gcgacgaggc tgggcgggga 5280
 tgtcgccacc gggggaagat gtgaggccgc gcgagcggag acggagagag agcatttggg 5340
 actcgataat ggcgcgcgct tcacggcggt gtctgttcca gccttcgccc ttaagcgttt 5400
 cggttaggtt gccagtggaa ggatcgtagt tgaagagcac 5440

<210> 5943
 <211> 2434
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5943

tctaagttca agaggggtgag gaattcctcg cgggtcttcg cgctggagcg catgcatccg 60
 agcatgcaac tggttgttgt gctgctgctc gtcttttggga ctccgcgcat aaccatgcaa 120
 agatgcgacg attccatgac cacgcgcgacg cctcgcggtt tgagaacttc tgaaatagcg 180
 agggcaacct gtttcgttaa gcgctcctgc acctgaaggc ggcgggaaaa catttccgct 240
 aggcgggcaa gcttggagag accgaggacg cggcgggtccg ggatgtagcc aatgtgcatc 300
 tgtatgacac cttagcgaag gaccaaagta aagatcgga gaggtttacc tttccggtga 360
 aaggcaccat atgatgctcg cacaaggaga atacatcaat atccttgaca ataaccaatt 420
 catcatggtc ctcatggaag accgcgccgt tgacaaggtc ccgcacgttc tcctcgatc 480
 ccttggtaaa gtagagcata gctttcgcat accggtcagg tgtttctcgg agaccctccc 540
 tatcggggtc ttcaccaaga cattcaagga ttgtccgcac agcccccgag agcttcttaa 600
 tccgcgcctc attttcctct ggggttgact caagccgtgc ccgtgttccg gggcctatca 660
 ggcaaactgc atcagcaaac cgactgggac cgagatatgt cgaaatactc acatggccag 720

cttaggccat caaaatcaat cgcaggtgtc agcgcatacg ggctggtggg gctaccggtc 780
 gttgccggcg gggtaggggc agcttcgtct ctggggtcgc gggctgggtc atgtaatgaa 840
 ggcctaattc cgataggggc agctagtact atggaagccg cttcagacga cgtacttagt 900
 cacagaagat ctgcgacgag ggctatcgta gctgctagca agttcgggtc gatgcgactc 960
 tgactcaggc tgatcgaact ccacgggaac acgaggagcg aaagacgagc ggatagaagt 1020
 attcaaaact tcccgtctgc ggacatccct cgacgcgacg gaccagcaa gaggagaccc 1080
 gccgttcagc aggtgagaag ggatggcctt gggctttggg cccaagggag gagaaccaga 1140
 tcccatgatt gactcgaaac ttgacggcgg ggaagacgag gagcgggggt cttaatgaca 1200
 gatctttcaa agataatggg accaagtggg tcgaaaaagg aggtaagaaa acgatatcct 1260
 gagtttagga catatttcta gccagatttt cttcagagga ggtacaaaaa aataagaacg 1320
 ttatgacaaa agagaaggca attctctcgg agactggatt gcccctccga gagcgccaca 1380
 cttggagttg attgcatgga cccttcaccg cctgaaagct aatgatgcag gacaatgctg 1440
 gttgcatgca tcctgcgggt gacggagcct gccaggcggg aaaattacgg taatcaataa 1500
 gaaccggtgc aaatcagaca tgcggtattc ttggagtagc tctgggaagt gcagcaatac 1560
 tgctatTTTT aggcttcgga taatacccgt tgtaaattggc tcatatttac gaagagaaaa 1620
 atagcagaag atttgttctt aacagtttgc ccgtaaagcg gtaatcaata cagaggggaat 1680
 tagatctcag taagatagca tgagatgctc gtctcaccac aatgatacgg ctgaaaataa 1740
 gagagctcct atgggcgcca aattaaggct ccaattcctc ggtcggcacg tcctccatgt 1800
 ccttaccaac aattgcatca gcaactttcc agacttgcaa aaggttgtct tctgcggcag 1860
 agcagagcac ccagggatca ttgagattcc aactgaaatc cgaaatacga ttggtgtggc 1920
 cgccgtgcat aaaaagtctg tagatatgat gaagttagcc ttgtgaaatc aaatcatcga 1980
 caggaaacta agagcacgta cagctcaggt ggccatcct gagcatcttc gggcgtctgc 2040
 tcctcgcccc ctgcactcaa atcccagaac atgatcttac ggtcgtagct tgcactagcc 2100
 agaacggcct cttcgaacgg atgccaggag atcgatgtga cggagtcggg atggttctcg 2160
 agtgtgtgta gcttcgtctt caggttacgt agatcccata ggccgatagt cttgtccgca 2220
 gatcctgtgg ccaggaccgt ttcggcggca gggtaaaaag caatcgcat gatggcatca 2280
 cgatgctggc cttcagccgt tgcagcggca cgagtagttt ctgcaactcg agtatcgaga 2340

atttgaagag tgatgtcgtc tgagacgggt ccatgatgag aggagtggag aggatggtgt 2400

tgaacgtcat aacaatagag gaatgatgag tata 2434

<210> 5944

<211> 11542

<212> DNA

<213> Aspergillus nidulans

<400> 5944

catgaacaag ggccaggtcg ggtaccgggg cccgctgact gctgagctcc attaaagcac 60

attccctgcg ggggtgaattc aggagctacg cagcgcaaat aaagacctga cggttttgag 120

gggtgactcc gtcagagatc atcgacatag cagtcgacaa cgcgccatgc ccaccaacgc 180

ctccgactac cagtccttga gtgggtattgc tcgctgcggc gttgtgtggt catggcaccg 240

gtgccggcca tggctatcct cgagtagtgc tgtcgtgag ctgcgcgagg cggcagctgc 300

gggcgcctgg acctgggcat gctgctgagc gactaacgag gaatgttgct gggcttggtg 360

cgggtggtgc tgggcctgat gctgctgctg ctgatactgc aaccaggcgg catcagcctg 420

cggaaactga tgctgataag agaaaacgta ctgactttgc gtttgaagca tgacgaaccg 480

acgaaggatc agtcctaagg agcgtgctgc aatctgcct gaccgaccgg aaaattcaga 540

ttgacggcag gaagggtcg agatagataa ggagtaatca gtgtgttgag agcggaagag 600

tagtcattga tcgatttacc aagccggatg caaaacagt atgagagagg aatactcgcc 660

gagagtgagt gggagagtgt tggctttgga tgtggaacgg taatcgaggc gagcgaggtt 720

cgggctccgg gaggggggga gatgcaggtt ccgaccgggg ctcaactgac tcagaccctg 780

cagctccagc tactgctagc tagactactg caatgccaa tatcttcacc taagttcaat 840

ccttagcaga aaagatatca ggtcaatatt catttacttc tggttcgaac tcttctgaga 900

cgctcagcgc tgcaaagcca tacacggcaa acccaagcct accggtattc taccgtcgtg 960

gcccgctgcta gttacacgca gcgcacaggc tattctgaca gatgcatggc tgacaaagac 1020

ggacaagata caggtctacc tgtacctaga atctagtagt aggatactga ttcggtggga 1080

tgtatatgtg tatgcagctc ccttaccagc tgcgtctcga atacaccctg cgttgaagct 1140

taaaggagtg actatacata ctttgattga actacttttg ttcacgccgt ataactctt 1200

taggacactg tgaggggagat acttggtgtaag gctattcaca tgctcatcat tcagtattta 1260

aagataaaga gtagtatcaa acatgcagcc tcaaattgcgg aaagaaacca tacacacatc 1320
aaagtcattg ctcataatac aggtaatttc cagagtgcac agccaccata aggcagtcac 1380
atgcgtcagt cgtctcgcct cagaatatgg aaaaggggtc aaatcatatc gggttctcat 1440
ggaatcatgt cgtccacctt caacgtgtca tcgttaatcg ttatacccg gacctcgatc 1500
gtcctgatcg cctgctccgt cgggttcgtc ggtctgagct ctcgctcgct aaagactgtt 1560
agcgggataa tttcttgagc agttccgtgg actgaactta cttgtgctgg tgtaatagct 1620
ataatagctt gggtagctgt aagagggtgt actcttctcg tcgctgtggt ctttcttctt 1680
tttcagcccg agacaaagcg caatcgcacc gaggacgatt ccaatcgttg caagcttgcc 1740
ccatcctgat ctattctcgc cctcatgtga aggcccagat gtccgagtc caagccacgt 1800
gcggccaggc cgggtgcgttt aaacaaaccc atgttcttcc acataagtct cttctcgcct 1860
ccttcgcca attcccaaac aggcaagaat gctgttcaaa agtccgcgtg cgcacaggca 1920
gaggcagagg aggaacagca agaacacacc agcgagtgtc ccgatcacia tgcccgaat 1980
cgcaccaccg ctcaagccgc cgtcatccgg agcgtcgacc cctagcgtg gcgatccgtc 2040
ggtggtaacg ggcgtctcga aggcctgagt ggttgctcga gtttcagtaa cggtgctcga 2100
gtctgtcggc cgtacgggag ccgtggcggc gccagtatct gttgccaga tcgagggtgt 2160
agtgccaga acacacttct tgtcggaaact acagacttca gaagcactgc agcagtcgct 2220
gccacactca ctctcaccga gatcacttcg acaactcccg ctcgtgctcg tcggagccgc 2280
gaccaacta ctccatacag atgtgcgtgt ctcgacatcg gtctcagtaa caaccaggt 2340
ggtgctgtac gtttcccagg tgccgcctcc actccctgaa ccgctgctcg aggaagaaca 2400
aaccgcttgg ttattttcgt ctgtaataca tgtttcgtcg gaggcacagc aaagctggct 2460
gtagtaacca catgggttgt cgcaggatcg ctgttcgagc gacccccct cagtgccact 2520
cggccctaac ggcgtcgcct cggcaagtcg aactggctc aggaatgcga caatcgagat 2580
cgcagtttgc agtaattgag aggtatgcat tgctaataa gaatgtgacc gaggatgtca 2640
agcgatcgga aaaaatgcta gcaagaatgc tctgacagcc gcaatcgtag gctgcagggc 2700
cccagacac tgactgtcct gacctcgccg ctccagaaac ccgccgtgcg ttactacggc 2760
tgcgatggac aacgagcgac gactctctga gtcaaacaga gataatgtaa aatatctttc 2820
gaagttacga aaggaaatat tatgataacc aaaagaggag aagaaaacga agggatgaac 2880

ttggaaaagg	aaccgaagct	gtctgtcgtg	cctgaccggg	tccgtgggcg	aatctcccca	2940
gcctcctcat	gcaagccgta	tacaaagccc	aaccacccca	tttctcagac	agtcaccgcc	3000
aatcgacagt	tttagccact	atgctcacta	atacaccgta	tattctcttt	ttttccctt	3060
taagaaaatc	cgaggctggg	cgggaccctg	cttttcatca	cattctaacc	ctcacttcgt	3120
caagttgagt	accctacgca	gtgccccctc	tcaacaccag	cgggcaatcc	ccgcatctcg	3180
tcattgcttaa	tactggcta	tagtgtcagc	tactattatt	actccgaggc	tgtcctggtc	3240
aatcagggtca	gagttctcac	tcacgagctt	tggaatactc	tgggtttatc	tcgggtttac	3300
ttctcctcgc	gctagacgcc	tcacgttata	aggtagtgat	gagctcaggc	taatcagctc	3360
gatcagacat	cggacactcc	actgcactgt	ctgtactggc	cttgagtcac	ggagactgca	3420
gggacagcat	ccccattgac	ttaattcacc	cgcgccgctc	ttgttctata	ggttttgggc	3480
tgcgtcaatc	gagcgggtgtg	cttgaaaaat	tggtggattt	ttttcaccat	ttgctgtctc	3540
aaaattctct	tcgtagtaag	tatttggatt	ggcaaataatg	atcagtattt	ggggcgata	3600
ccaagagtat	ccatccattc	aacaagcaat	agtgtagaac	gtcactcatt	tactcatttc	3660
atatcatcca	tggacagggc	cgtcatcata	tacaaactcg	tacaagaagt	cttcgtccaa	3720
gtcattatat	gtccattgcc	ggtcttttaa	atgaagaacc	cagcaatgcc	aaccaccaag	3780
cccacaacaa	gatcctgtag	gctcgatgtc	ctccggtggc	ccgcgccatc	cgtccccct	3840
tcataattcc	cacaaacccc	cagattaagc	ccatggcatg	cactctggct	taagctggag	3900
catgtttcga	tcgcattcgc	cgcagcgctt	gtctgtgtga	agtccgctcc	cccgccgctc	3960
acagtcaccc	cgtagcccc	gaaatacgta	acgcacgccg	tatagcttct	ctcgcatcta	4020
tcgtagtatg	atgaacactg	atcagcgta	gagaaggcag	taggcacata	gacgaacgga	4080
tagccgccgg	acattgttga	gcccgtgatc	gtagacgtag	ggtcacgctc	ggttgtgggt	4140
gtagcgccg	atgatgttcg	agtcgtttca	aatgctcctg	atgagccacc	tagagtaccc	4200
gtgcagcttg	ccccgctggg	gcagcatgca	atatggtttg	cttcacgct	cgtacatata	4260
gcgtctgttc	ggcagcagat	gccggagttg	tcgaggttat	cgcattgggt	gtatccgcca	4320
ggacagttgc	tgctcgctt	gttcaagcgc	tcgagaatat	catatgcccg	ccgatttgtg	4380
tctgggcttg	ctgtgatggg	gtggtcgaag	ggaatgggtg	aggtcgcgaa	ggcgccggcg	4440
gtgaggagga	atgtggtcac	gattaagccg	gaaggcttca	ttatcgtagg	taggcgtaat	4500

cagcccgcca gtctttcgaa gtagatagta ctactgtgga atgaaaatat gtatcgcaga 4560
tagctccaat catccaagaa tcagcggttg ggtagcgatg acgagaaagc aggtggccgg 4620
gtaatcaaca aattactaaa aatggcaaac tgtcggtccc gcagcctaga gcggtgccgc 4680
ctaaatagcc taagcataga gccagccact gccttttcat cttgcacctc tcaactggttg 4740
tgaatctgcg cgatatctct aataagtcgc tgatgacctg gtattgtact aacaaatgtc 4800
ctattcaggc attaccttca atcatgccgt tgcgtggaat taagcgacgg ggcgtctgcc 4860
tacaactacc catcacactt catcagtcct cctgcgcagc gtcctcactc aaggggtctt 4920
ctggcagaga ctccctgcac tgttgagagt tttgtcgctg aagatacagc cttgctaccg 4980
cccttaaacy ccgaatctta gacaacccat cggatgcca tcgactctca gaatcccagt 5040
ctcgacgaga tcagctctca gagccgaagc cctccaatat tttgacttca ttgaggaagg 5100
cactgtgcat cgcttcagat gaatatgtcc cagcgttgat ggcctttgtc gtcgctggtc 5160
aaccttcctt tgccgtaggc cccaatctat gtgcgcgtaa atgagcaccg tgcttgcagg 5220
atggggaaga gcttgtgctg cgacagcgcg acaacagaaa ttcgcctcaa tacttaaagt 5280
catgactaca ttcttctcta ctacggtgcg gagaacctct tcatatccat ctgggaggtg 5340
atcaagaaca acgaagcgct ttaccttctc aatttgatga agacgttcat ggtctcaagt 5400
ggatatccaa ggagacttcc cagttgactt ccagttagc gaatggaggc agtacatgcc 5460
aacatcttca acttctttct ggtgcagaag ttgaaaacgg gctttccttc ttaccccaa 5520
gcgtcttcac actttcctta gcccagcaa tgagcaatga tacacgcctc gaa 5580
ctgggcgtaa gccattcaga gcatttgagc tcgatagaat tcgtttcgaa gacccgagaa 5640
tcccaaggaa tgctctctt gtgcgagtta tggacgagat attgatagtc tccaggccct 5700
cggtcccag ggtgaaaaga gccttctttg ttccgtccca agcccctgag agcatcctct 5760
atcttggaag cttccgtctt cttaccgata accaagccag tttgaggggg catgattatt 5820
ggaagatacg tttgatatgg attcaggatg ggtatatttc aagatcgagg gcgatacaaa 5880
gctacctatg cagagctcgt acccttagcc atcaacgagc tctcgcgagc tcagccgtag 5940
aaccacatt cgctccatga agataaaccg gctcaaacac tgtagaatat cattgcagtc 6000
ttaggttagt acaattggaa tggctgcggt tgagtatttc ctcggtttac tccgttgctc 6060
tgtgtccac acaagttttg ctagagaaga taaggtactg cggaaaaccc tctacttcta 6120

gtattgcca cgaacaacag ctaggctgta accttccaag ctgactttca atcagtggct 6180
 attgatagat tcgaacgtgc ttaaacacaa gcttgaaagc cgctgtggc ctaactctca 6240
 tgtggttggc ctaaagacaa gcctgatttc actgttgctg ccatcagctc tggcgtggga 6300
 aacacgtatg tctgtagcgt tcaatcttag tgcaacggaa aaagccatga tgcctcacia 6360
 aggtgggact atcgtaagaa gttagaggca ctgccttcga tggatatagat tacaataaac 6420
 ctgactacat gaatggccgt cagagctatc ttggacttta tggcgacact gcaagcgtaa 6480
 ataaacgggc ttttggtgag aagaaacaag gctatcagcc ctgcaaattg caagcaacia 6540
 gcttttttat tacggcttag attgggtgac aggtcatgga ccaaagcaat gacgatgact 6600
 atgcagaaca tgtgacggtc agccacctaa taaacctcct agcagttcaa ctcacatacc 6660
 ttcaggtatc atcaaccacc taacgggacc atttattgat ctcgattatg ggactcccag 6720
 tcgtggactt ttcacgtgg cataatgtta aagatgaaag atctcggcaa cgtgtggcac 6780
 aacagctcgt agacgcctgt cagcgggtag gtttcgtgcg tatcatcaat cactccttgc 6840
 cggaaggggc cctcgacgag gcatttgaat ggatgaagcg actcttcgca cttccagaag 6900
 aggatacaat gaaggcgct catctggcgg gttgggctgt ccatcgtgca tactcatggc 6960
 cgggtctaga gaaggtcacc caaatcatga gcactgacgg cgacggagac gtgaagaaaa 7020
 aattacgaga agtgcctgat gtcaagggtgt gcttctttac tcctagtaca gacctaggct 7080
 tcaattgctg aggaatgcta ggaagtctac gacatcggca gcgaagatga caccagccag 7140
 ccgaaccaat ggcttcctaa cgccatactc cctggcttcc gcgatttcat ggtccaattc 7200
 tacagcgagt gtgaccgct tggcaaggaa attctccgag ccatagccgt aggctggat 7260
 cttgaggacg cagagtacct caccagaaaag cattcgggga actctaacca gctgcgactc 7320
 cttcactacc taccggttcc agctgaggat ctggagaaaag atcgcgtgac gcgctgtgca 7380
 gcgcatacgg actggagctc gattacgatg cttttccaag atgactgtgg cgggctggag 7440
 gtggaggata tatcgaggcc tgggacgttt gtgccgtgcg cagcgtgtga aagatagtat 7500
 cgtcgtgaac attgggtatc tgttgacagag gtggagtaac ggttcgttct cgtttctagg 7560
 aacacctga taaattgtcc tagcctgcct gtgtgctagg gatatgggac cccggttacg 7620
 tgtaatatat gctaactgaa gtgtggtaca acagaccgtc ttcgctctac gaaccaccga 7680
 gtgagcctac cgactctctc agatcgtatt ggaggtccag ataggatgac ccgtgagcga 7740

ttctcgattc cttactttat gtctccggat gacgaagtcc ttgttgaatg tataccttcc 7800
 tgtatgaatg acgaaacccc agctaagtat gagcctatta cacgaggaga ctataacaag 7860
 atgaggatgt ctatgatgta ttgattctgc tagtttcata tttatgccaa aagctacttg 7920
 ctccatatac gtatatatta ctaccgctgc agcatctagg ataaacactg atttccaccg 7980
 agagaacaac aaaactagta gcacctccag ttgtagtgga tgagttaaact acttttagaaa 8040
 agaaaaaaca aaacaaaaac aagccgtaaa atgaagtaca tgccctacta gccccgagcc 8100
 cttatcctct ccacaactat gccttattca caaggcaggg aaaaaagggtc ggaaccaagc 8160
 cgataagcgc ggcggacatg gagtttgtcc agcaccagct ccgtcgacgc aacagaacta 8220
 caaaccccaa tctcaaattc acacgagcac gaggcgaatc aatcggcacc atctggagct 8280
 gcataaaaaac ataagacctt ccgagatata cttcaaccca cgcaaacgct cagtccaaca 8340
 aggcacctcc gttccaaaat cgccgcaacc cctcattcca tcctccgcaa accatccgca 8400
 aaacgtctat cccaaacgaa gcccctcaaa aggtgcgccg gcgctcatca gaacactttg 8460
 accaagtttg aatgcagcta taatgtgatg ttctcaatag ctcttcaag aaatcgaatc 8520
 ccgctgata acctcgcagc aacagattgg gatcacgaag gcacaaatga caagcaaaaa 8580
 ccgtgatatc cgaatgctag agctcacatc aaaggagcta agctctttgc ccgccgatac 8640
 taatgtttat gagggcgctc gaaagatgtg agtgccatat cttgccttgc ggacaaactt 8700
 tggggctgaa acggggccgtg ctatattacg ggacctggta taaaaataag acaagacgga 8760
 ttgggtgaat aagagtaaata gaaacggata ctaatgtcac ttaggttcgt tgcggtccct 8820
 agagccacag tggacaagcg gatatcgaca gagaccggag agttgaaggg ggagatagag 8880
 aatctggaga agaggatgaa ttatttggag atgacgttta agaacagtcg ggagaatctg 8940
 gaggtatatt tgaagtctgg acggggcgtga aaaatcttcc tcattaatct tttcatgtct 9000
 atgttctaca tgcgaaatgaa tggatggcac tcaaaccatg gcgctctacg aacaagcatc 9060
 gttatccaaa ccagaccccc tttgtttaac aggtcttgat gctacagcat tgacctatct 9120
 gacaagttat gaaactaggt tttatcccgt tctcaacccc tccaaccggt accagcagcc 9180
 atttgttcaa tcattccaata tcaacccaat ttccacgaaa cctctgctca tcaaagtctc 9240
 ttttgcatct gccctcaaaa gtctcccggt caatcatcag aacgaattcg tcggtgggtg 9300
 cttttgctgc cggtcactaa atgatggcgg cggtgaaggc ttccaggatg acaattctga 9360

gttataaccag gccggagaag ctgtgtcggg gtgaatgctg gttgattgcg tgcagctaac 9420
 ctcgcatga tccaggtagc cgtgcgaagg ctgattccgt gaccggggcc ccggcgggtg 9480
 aagactgttt ccatggcaag acctaggttt gcgctgggct tccgtgggta aatgcaggta 9540
 catccggccg tgactggatt ggagcggcat gcagctgatg tcaaatactg gcagctaatac 9600
 taggtgctgg cttcccgaat ctgaaccccc agtaaagtag gaaggtccat gtcgtgaccg 9660
 aaacttgctg gacacgtgga tgttacagcc gtacattact ttagcagtgc gacgtgtcgg 9720
 tgggtgagga tgaatagacg acctcagcag caccagcagc gccagccaat cactgacat 9780
 tcacatcctc gccgccatcc attctagtaa agtactctgc atggtcagat tgtgctggac 9840
 agggcaagat gagcgtctcc aatcctcgcc gttcaatcct agcagacaat tcgcggaaca 9900
 aggtttccag ctgcacgagc tcagacttgc gtgccccgc caaccggttc cccgcacga 9960
 ccatctggtc aagaatcgcg taggcattct gaatatcaat gtagtcctgg ctttccgtaa 10020
 tgtttgaaa gagtgcgctg gccatcgta tatgcagcgc cgcggcgtag gtgaattcca 10080
 tgtcgaaggg aaggaagact tctgtacatc atcagcaacg ctccggtat cttaggtaga 10140
 cctagaggaa gggatgaggc gctacctagc aaactgtctt cgtccgtgag aatctgtaat 10200
 gtcttcgagg cggacttgat ccagctgag atgagagcgt tggttggcgc aacgatactt 10260
 tgccagtctt ccgcaccgtg attaagcttc tggaggcgt ccttgaggac ggagaggagg 10320
 agaggctgag ttgcgacgat cacacacttt tatagcgtca gacaaccgt tacccttgct 10380
 gaaataaaag gtgagaagga taggctccct acctggtggt atagaagcgt gatgtgtctc 10440
 gttccctttg gcatggatc taccgaattc tggaacttga gctggattat ctgttcaatt 10500
 tcacgcgct gtccggcaag cacatgaagg atcgacctgg ttgtctctag aaatgttctt 10560
 agctgggtct ctgtggcttt gtatatggct ttatagctgt cagcttcttg cccaccaagc 10620
 ccaaatacag gccagtgtcg agaagaaaat atgaacctac aggagagaat gtatgatagc 10680
 aaatgggaca gccgcacgga aagactgagc gtggtatcac tctgggagca ggcagtagca 10740
 gtaagcggct ccagcaacgt ggtgatatcg ctatcctcgg gcgtcatcga cgctccaaca 10800
 gacgaggaaa tatgcctatc aagaacgtaa agcgtccacc agagattcct gcaccgggct 10860
 accgtttcaa gcccgagttc gtcctcgggc agctgcgtgt gcatcccgct catttgcgcg 10920
 atgcggatgg cgtgtccgac ctacgagaac gggtcagctg atacaaaata gaataata 10980

gaataatata gagtaaaaga tcaagaaccc catggagaca tacataaaca tgggccgaac 11040
 tccggtggtc gatcgagtaa agatacaacc cggtcagtgc caatacctcg atcgcgacaa 11100
 accctccacg ggagaggctg gtatgatcgg gcatgaggct catcgcccgg ataaagaact 11160
 ttgaccccg cggatcattc gcattgttcg ggttcttgtg tccgggaaac agaaacgcgt 11220
 tcgcaaacgc aaggacaagt aggaactgca cgaaccagag ccggcactct ttcacctgct 11280
 tgactgcgtc tccgtaatag aacgcgtgca tctgctggac gaagtcttct tcgtttataa 11340
 ggcagaagtt atggcctaga tggaaacttga cagtattgaa gaggtacagg gcgtgggtcaa 11400
 ttgagggtag gttgctgata tccgggtgtg agccgacggg cagcggcgac cattggatcg 11460
 ggtagaggtc cccaacgaag agctcgggag tgctataatg cgactcgata tggagtttct 11520
 cggcgggtcat gagtataacg tt 11542

<210> 5945
 <211> 2097
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 5945

catgaattgt aatgacattc tgcggtgtgt cagatgatcc tgaagtcac cgcgcgacag 60
 tcgacctctg agagttgtct gtggagcgtg gccggtacat cccaagacta ccaacactac 120
 gccatgtttg ggggtgtgga aagcgatgtt gaagacctga aagaataccc gacgaccgag 180
 aagagctcga tgtctcagct tcggagtcac ctgagtactc tgaagcacca tcgtcagtgc 240
 ttgctatggt acctgttacc cgtggccctg gtgaacttgt ttcaaaacgt ccaaactctct 300
 caaagagatt atcagatctt gacagtctcg tcatttcctt aaacccgaga ttttcaagag 360
 agtatgctga tttatctttc tttgttgga aaaagcatac aaggcggcca ttattgcccc 420
 agaccgctcc aactccctg gccctaggta ccatcacgtt tgcgttaaca ggtcgaatca 480
 actcggaact cattgctagg tcttggtctt gcgataagcc aacctcatcc tcatcactgg 540
 attggccaca agctagcagg ccacctaggc caactaccta caattcactc cacgacggag 600
 cttgactaag aagtcaactg gttgggttagg acaacaataa cagtgcttga ccaacatggt 660
 cattacaaag actattatcc tactcaaaat aatgggtcac cccagagctt aaaacccagc 720
 aggttactgt aaaccaagca caaaggagat ggcagagcag ctgtactacc ctaggttgta 780